FE colleges hit by cuts in rate support grant

Service training of teachers. East Sussex for example will irlin £29,000

reduced Rate Support Court effect on further education

The reduced Rate Support Caunt took effect on further education this week as county authorities cut their discretionary awards, reduced their discretionary awards in some authorities the education committees and squeezed part-time staff.

Many county councils have decided to protect their full-time teaching staff though redundancies are still possible in Oxfordshire and lisses. Authorities will rely out natural wasinge, ceasing to accept language assistants (as in Essex and East Sussex) and doubling-up part-time stoff.

However, students in counties such as llampshire, llerifordshire, leicestershire, Wilishice and Cunstricter next year in disbursing grants. In Leicestershire, for example, where £346,000 is to be saved from awards poid at the saved from awards for next year.

In some authorities the education of the education there committees simple to cestore cuts in the discretionary awards hide discretionary awards from Mr William was Stanbenzee, MP, former Consolidation musical and dramatic courses but also for those in agriculture, medicine and other subjects. Hide discretion medicine and other subjects, hide discretion medicine and other subjects, hide discretion medicine and other subjects, hide discretion medicine and other subjects. His discret stricter next year in disbursing grants. In Leicestershire, for example, where £446,000 is to be saved from anyocds poid at the authority's discretion there will have no greats for a range of courses from dramo and benuty thermpy to film and stage management.

In Cambrio 10 per cent of the money spent this year on awards is to be saved and in Wiltshice 6 per cent of full-volue discretionory awards. Hempshire plans to end geometre of ordinary National Diplanta courses end various secretarial coorses.

Despite promises made by ministers during the RSG negotiations, several outhorities plan to the country's future depended.

A case cruciel to the right of stu-

A case cruciel to the right of students to receive supplementary benefits is expected to begin in the Appeal Court un Monday.

Aft Robin Atklason, a law student et Newcastlo Polytechnic, is challenging the right of the Supplementary Benefits Commission to assume that purcus have poid their contribution to the grant Irrespective of evidence of whether they hove or not. He has already lost his case before the divisional court of the High Court.

His case is important to the struggle of the Government to prevent more than 100,000 Stodents

Benefits case

starts

Poly rejects
ILEA's
overseas quota

Gavernors of Central Landon Polytechnic this week rejected tha luncr London Education Authority's averseas students

quota policy.

The college now plans in defy the authority's directive to reduce its overseas student numbers by 110 in the next academic year and academic year. three touching pasts.

consequently fuces a couback of three teaching pasts.

A stotement by the court of governors this week said that it found the quota policy unacceptable particularly in view of the authority's recent indication that the issue was no longer solely financial. The governors voted to rejact the policy by e substantial majocity.

The palytechnics of Central Landon, North London, City of London and South Bank last authorn ignored an instruction from the authority to keep their oversens student numbers at the suma level as the previous academic year. The standstill was the first chose of an ILBA plan to reside foreign students in its aided and mointained colleges from 25 per cent in 1975-76 to 10 per cent by 1982.

A letter to the rechel four from ILEA sarlier this month warned that it regarded implementation of the controversiol policy es a condition of the colleges' block grants and related staffing establishments.

The City of London Pulytechnic's academic board of South Bank Palytechnic of North London is to make a decision acat month.

Thames Palytechnic which fell into line with the initial H.GA rubing that colleges should freeze their overseas student numbers at the same level as 1975-76 in that colleges through their overseas student numbers at the same level as 1975-76 in that colleges the same level as 1975-76 in the colleges the same level as

their averseas student munhers at the samo level as 1975-76 in the current neademic year, this week indicated that it was still considering the averall five-yeor miley.

Two professors appointed

Reading launches engineering Links with local colleges Links with local colleges

Reading University's engineering department has set up a formal link with 11 hand endleges at further otheration and technology for the transfer of stackard become department. ler of students between degree and

ler of sindents between degree and diploma courses.

College students whose examination results are good enough will have two opportunities to move to the university: at the end of the two-year Ordinary National Diploma course or after two terms at the three-year lighter National Diploma course. In the first case they start at the beginning of the university BSc course, in the latter they judy BSc students after the university's first-year exams,

Directly-elected authorities

are 'best for education'

lenes, have had to change controls to make transfer no ebrustry 4, 1977. No. 276 has been more a more rearranging timetables than be scale restructoring al syllage that primary object to increase both the quality of entrants to the meeting profession, sold fide the primary profession, sold fide the primary object than a broad. "We see two years to the many schools," It was feel that I would be many schools."

The added: "We feel that I RIOGESIA the exciting educational develope.

the iniversity: in the end of the two-year Ordinary National Diplomators. In the first case they start the beginning of the university of BSc course, in the latter they join BSc course, in the latter they join BSc students after the university's of BSc course, in the latter they join BSc students after the university's of BSc course, in the latter they join BSc students after the university's of BSc course, in the latter they join BSc students after the university's of BSc course, in the latter they join BSc students after the university's of BSc course, in the latter they join BSc students after the university's of BSc course, in the latter they join and move into a callege IND course of Interest and move into a callege IND course of the university of the scheme, because young god vire-charactellar of the university in the direction of the university in the university in the direction of the university in the direction of the university in the university of Technology, and Professor Peter Dunn, of the nativersity made clear of a press conference, the scheme's major alignment of the university in the direction of the university in the university in

proved, it must now contain a arming that the regime is Illagal, int consular protection is not available, and that residents are liable is indefinite periods of coll-up.". he university has refused to advertise the factors of the collection of t

are best for education

| Color | Colo

Industry more attractive to polytechnic graduates

THE TIMES

SUPPLEMENT

Rearly half of the studenty finding 1975 with a first degree or Higher Diploma, went into industry compared with about note third of university first degree graduates, a new survey has revealed.

The survey, compiled by a statistics earling pury drawn from polytechnic careers indistors, also shows that more than 70 per cent of the graduates and aboust all the HND students qualified in amplied subject weeks.

Seventy per cent of the Conneil for National Academic Acad graduates from sandwich comises and 43 per cent of those on full-time courses undeal directly into employment on leaving polytechnic, compared with 40 per cent of university first degree graduates. But the latest figures receal that

greater graportion of university adents — nearly 14 per cent of do research in academic study.

Eight per cent of the judytechnics' CNAA first degree graduates and 14 per cent of those who took external univorsity degrees were anomphaged six months after graduating, computed with 6 per cent of the first degree university, spudents.

A larger proportion of university A larger jumper from all inference from degree graduates entered feacher training, 15 per cent campared with the 13 per cent of pulyteclatic CNAA graduates from full-time courses. Uf the polytechnic output in this category, 10 per cent went and author types of vocational training, including Lace Society and Bar examinations against 8 per cent of

DESTINATION OF FIRST-DEGREE HOLDERS POLYTECHNIC UNEMPLOYEO

ferent pattern hetiveen CNAA graduates and thuse obtaining external university degrees. A much higher proportion of CNAA graduates entered personneat employment, 53 per cent compared with any 30 per cent of external university graduates on CNAA and external university degrees.

partian to encational training, 15 per cent compared with 32 per cent. The working pury says: "One important reason for these differ-ences is that must external univer-

degree courses, but fewer were forced to take temporary employ

suidons went on to further full.
Thie study of training in 1975, 10
per cem of whom are likely to
have transferred directly to a first CNAA graduates from full-time ences is that most external university in this category, 10 per cent went on the tripes of vocational training, including Lace Socioty and Bar examinations, against 8 per cent of the polytechnics in England and Wales, indicates e significantly different programmes and the output of the polytechnics in England and Wales, indicates e significantly different masses that many extend university students.

The survey, which covered 27 of the polytechnics in England and Wales, indicates e significantly different masses in the output from sambleich degree and HND street, with layer transferred directly to e first degree course, says the survey. Sindents 1975. Some Details of Furst Destination and Employment, Canadical by Polytechnic Curvers Advisors: Statistics Working Purty and available from the Curvers Advisory Service, Polytechnic of Central London, 104 Bolsaver Street, W.1. Price 12.85.

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Price 18p

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In a qualified defence of the DES Gerry Fowler MP argues that changing the people is sometimes more effective than changing their method of work, 10

Notice board North American news Ovorseas news

vent more than 100,000 Students to preregisteding as incomployed during the Christinas and Eostor vacations.

The Government decided last week to remove the sub-section of Clause 13 from the Social Security (Miscollaneous Provisions)

Bill which would have prevented students on full-time concess claiming bouefits.

Dr Juhn Mackintosh, the Lahour MP for Berwick and Eost Lothinn, is been appointed to the chale of lie intended to remain as an MP.

Mr Michael Zonder, lectucer in law at the London School of Economic and legal corcespondent of The Guerdin, has been eppointed branch of the theatefeel octs." List of college closures greeted with protest

Buckinghomshice, Mr Jumes Irelend, ceunty ceuncil choirman, said tha county was staggered by the loss of both lis collegas. The new £750,000 Milton Keynes Cullege building opened only 18 menths ago. It was the first college in the country to develop o cembined course with the Open University.

In North Yorkshico the council will elmost cecteinly fight the closure of North Riding College, Scerborough on the grounds that this will leave a vast area from

Dr Morecambe

cation Authority has to divide 2,000 places between its remaining institutions. Mrs M. J. Rees, ILEA chairmen, said ahe believed major ocganizationel changes might be noeded.

At the Gluucestorshire Instituto et Higher Education the problem of marging maintained with voluntary collegas remains unrosolved. Mr Oekes said he believed it might be solved in the case of the All Saints, Middlesex Polytechnic macgor by giving All Saints representation on the polytechnic's governing head. this will leave a vast area from Teosside to Hull without facilities for in-service training which the government says it is enxious tu preserve.

Some authorities anticipate problems over mergars as well esciousnes. Lady Mabel College, Rotherium, with 425 places is esked to merga with Sheffield Polytechnic with 1,000 pleces but the finel place allocation will be only 1,000 for the two. Sheffield is to pross for a groater number.

In soma areas the difficultical ic effective area from the polytechnic solid polytechnic with 1,000 pleces but the finel place allocation will be only 1,000 ous new usos for colloges in this for a groater number.

In soma areas the difficultical ic effective area from the polytechnic solid polytechnic with 1,000 places are number.

Are observed with Saints representation on the polytechnic's governing body.

If any collego wins its casa it will do so at the expense of onother, the first of the 45,000 place optimistically about possible future uses for redundont collegos.

Mr Oakes seld the 45,000 place optimistically about possible future uses for redundont collegos.

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Mr Oakes seld the 45,000 place optimistically about possible future uses for redundont collegos optimistically about po

for the two. Sheffleld is to pross for a groater number.

In some areas the difficultica lic ahead. In Meuchester the outhority has to decide how it will divide the reduction in places between Menchester Polytechnic and Manchester Colloge of Highor Educe tiou.

In London, the Inner Loudon Education in the House of Commons, said while

ges which it is proposed itioald to containing a series of the containing and the containing and the containing and the containing and the containing at the containing at Castleford Anaexa. Bidding College, Castleford Anaexa. y of Dingley College. n Polylochnic e Gollogo of Higher Couration.

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Later Suptand Kingston Polytechnic.
Later Suptand College of Higher Education Kornes Collsge. Ichesise fusibule of Higher

Laiverseld leads of the basic of the control of the Spurpool Polylechair and the City of fiver-pool College of Higher Lduralism from 1.350 to 1.000 and their amalgamation to be considered. Siterod, and meir amaignmation to be Liverpool institute of digher Education 1.000.

Monchester Polylochaic ont Alashester Cot-iege of Higher Education from 1.000 to 600). La Callo College, Monchester from 750 and Alsager College from 1.100 le ingham Polytechnic to 050 and West Aldanda Cillege to 1800 North East London Polylerhair la 1877. Rogiusmpion Institato af illipher Education by 1,200) and 81 Mary's, Twickenham From Your

Applies Polytechnic to 460.

Inguica Polytechnic to 460.

Inguica Church. Contespany in 500 induces to 100 induces to 100 induces to 100 induces to 100 induces in 100 induces induces in 100 induces Tom Driver, page 2 to retire

Australia new universities ! Profile of Stan Broudbridge, general secretary designated the NATITIE

Finded and Published by Ting N. 1987 N



NEXT WEEK

bath-bluck and white, to British universities for part of their atudies.

Sir Hugh Hobson and Alex Manual Countries for part of their atudies.

Sir Hugh Hobson and Alex Manual Countries for part of their atudies.

Sir Hugh Hobson and Alex Manual Countries for part of the atudies of the analysis to toke part in the training of his administrative that.

Analysis is a consideration of the administrative that.

to hopes to send members of the intersity's teaching sioff to Briming and to take higher dogrees out has asked universities to toke part in the training of his administrative that.

Of the university'e 240 full-time icademic staff, only 30 erc African. Glying evidence to Rhodesia's complicants increased from 30 per cant in 36.2 per cent between 1970 and 1976 ond emong home utimis full tates against staff recrultment. This has affected the distribution of applications out administrative to non-white academics."

In part of the university part of the prospects for admission to nuniversity place among shis to take higher dogrees out has a more women than fur men, the report to the 23,237 successful on nuniversity place among shis to the 21,901 applicants the provious compored with 41.1 pur cent of the 21,901 applicants the provious years. Both figures, however, ore higher than previous years.

UCCA Fourteenth Report 1975-76, the University entry should be used to be used the university entry were 3.7 per cent university entry were 3.7 per cent up on last year can applications of the University entry were 3.7 per cent up on last year. Both figures, however, ore higher than previous years.

UCCA Fourteenth Report 1975-76, the University entry were 3.7 per cent university entry were 3.7 per cent university entry were 3.7 per cent up on last year. Both figures, however, ore higher than previous years.

UCCA Fourteenth Report 1975-76, the University entry were 3.7 per cent university entry were 3.7 per cent university for university the matter to one of the most bitter opposals, said this much to can denist information to find him provious the netural barriers to the University entry were 3.7 per cent university the matter to a provious year.

The proposal staff to the University entry were 3.7 per cent university entry were 3.7 per cent university to the matter to a provious year.

Elizaboth College, London, who wes one of the most bitter of the distribution of applications out admission to a definite the provious yea

More 18-year-olds seek university places

A larger proportion of the 18-year-old age group is now applying fur for aclence or technology, the miversity antrance, according to the lotest annual capacit from the Unit-

lotest annual center from the Universities Control Council on Admissions.

University opplications from home students last October exceeded the increase in the uge group by 3 per cont, it says. Total applications, at 142,307, were up on the previous year by 8.2 per cent, the second consecutive increase after se

Oversens applications ore still increasing, and form 14.2 per cent of the tatul compared with 9.5 per cent in 1967. For 1976, total applications were 20,503 compaced with 9.5 per cent, and in social studies and low, where applications are up 16,599 the year before. Although home applications for angineering and technology doclinad during the docude from 13 per cent to 11.6 per cent, that shortfall has been made up almost entirely by oversons students.

Trends in subject preference over the decade show un increasing the tatul compared with 9.5 per cent in 10 par cent to 13.3 par cent, and in social studies and low, where applications are up those using troditionol ond aufe to docude from 13 per cent to 11.6 per

Trends in subject preference over

Tighter new genetic safety rules

by Clive Cookson

science correspendent

science correspendent

The extremely wide definition of genetic monipulation contained in that Health and Sofety Commission's druft control regulations, which roughed off an explosion of scientific protests, hus been rewritten in far tighter terms.

The original dofinition was contained in a regulation cending: "Nu person shall carry on any activity intended to ofter, or likely, to alter, the genetic constitution of any intero-organism unless he has given to the Health and Safety Executive notice... of his lutentian to carry on that activity."

Many blolugists were hoccified at this extension of bucoaucrutic planning in

lular medele acids is intended at likely (a) to insort genetic information into organisme, oud (b) to circumvent the netural barriers to each insurtions, and (c) to propegate that information, unless notice has been given.

F

Polylachnic trom 640 to 1,000,

Dundee principal

The principal of Dundee Voluments Joines Drevec, 66, withis week that he is to retrict will leave Dundee in 1978, two years earlier axpected.

Dr Drever told the consider he hoped his early might be en example to his collengues to consider making

BEd students

Student teachers with a three-year

terring quanticarm bad it much harder to get tole dian BEd stay thenty. This is shown in a survey by Mr. Fol Leasun, principal of Worcester College of Higher Education, lasted on 71 per tent of this year's output of newly qualified teachers from colleges of education and polynoclosics.

reclinics.

Nearly 31 per cent of the three-year certificate group were still without jobs on September 30 last year compared with nearly 18 per cont of Blid students.

Mr Peirson suid: "The certificate

will be difficult to sustain the mati-vation of a group of students who foce the prospect of one in three be-ing unable to secure a teaching post at the end of a three-year full-time

The percentage of all leavers unemployed was 28.6, or a total of about 9,800.

The National Association of Teachers in Forther and Higher Klucation cloims that the survey backs its contention that there are 20,000 upone to the backers.

employed teachers. This figure in-chides those unemployed fram pre-vious years, macried, women whn would like to return to teaching,

find getting

jobs easier

by Judich Judit

More workers study at OU

Nearly a quarter of the 5,800 students to graduate from the Open University this year started their courses with less than the normal university contance requirements, compared with 18 per cem in 1976.

compared with 18 per cem in 1976. Figures released by the OU show that 11 per cent of this year's graduates were in manual and contine office and service industry jobs, 2 per cent more than last year, but teachers still remain the largest group to graduate. They made up 47 per cent of the new graduates, campared with 53 per cent in 1976 end the sil time high af 86 per cent in 1972, the first year of graduation. Thirty-seven per cent of the graduates were women, an increase of

antes wore women, as increase of 3 per cent over last year. Housewives were the second largest group to graduate, taking a 13 per cent in 1976.

Sir Walter Perry, vice-chancellar of the OU, now maintains ther over

Sir Walter Perry, vice-connection of the OU, now maintoins that one in 14 of all new graduates in Britain come from the university, half the original group of students to finally register with the OU in 1971

finally register with the OU in 1971 have now graduated.

The 5,800 new greduates are the largest annual group to have gained Open University degrees and bring the total number to more than 21,000. Aunther 1,150 students who have graduated with accidingly degrees in previous years have now

legrees in previous years have now publified for kanours dogrees.

Lord Gardiner, the former Lord Chancellor and now chancollor of the Open University, was omong the latest students to graduate. He gained a RA ordinary decree clean datest students to graduate. He gained e BA ordinary degree along

gained e BA ordinary degree along-side a window cleaner, nostonn, ficenaa, nureo and radiographer.
He told The THES that he decided to study for a degree six months after becoming chancellor in 1973 because he wanted to learn more about the milversity. He took three course orealists or tilled. more about the university. He took three course coedits, entitled Understanding Society, Decision Making in Britain and Putterns of Inequality, instead of the normal eix needed to gain a dagree because of his praylons qualifications. He gained e fourth class degree in liny at Alagakien College, Oxford, in the 1920s.

of had to do incomparably more work for the Open University degree than my sorlier one, he said. Lord Gardiner took his course insterial to the House of Lords where he used share moments to



New OU graduates: (from left to right) James Clarke, Frank Morgan, Lord Gardiner and Susun Derby (kneeling), Philip Haskins and Terry

thought I was aiming high in sinriing the caurse and at the boglaning
I found it hard to express myself
an paper. But now I em cansidering

The Open University honours
degree it as been recognized es

material to the Ifonee of Lords where he used spare moments to study, and reed his set books on his annual holiday in Medeirn.

A fellow graduute was Mr Feark Morgan, aged 59, a window cleaned from Bolton. He left school at 14 with an farmal quolifications and has taken six yeurs to complete his Open Hulversity degree pragramme. He told The THES: "My family it hard to express myself and paper. But now I em causidering going on to take an honours degree has been recognized esquivalent to a specialized single-subject course degree of a conventional property of the British Psychology of the British Psychology mannage the cight needed paper of the society.

The Open University honours degree it as been recognized esquivalent to a specialized single-subject course degree of a conventional property of the British Psychology mannage in the society.

'Hard work' at Edinburgh prevents redundancies

prevented any staff redundancies at Edinburgh Duiwesity Last year, Sir Hugh Rubam, the viceschancellor, writes in his annual report to

"The year was spent under the twofold shalow of mounting to the tion and intertainty as to the university's income in the near future." The motion was sgred, inc. of the local bracket inc. of the local bracket ciation of University attended by some 26, which was held to discuss of redundancy condited bulletin from the universities in oil staff. he says, "This necessarily involved many departments and individuals in the acceptance of economies, which, if they did not affect the services provided, must have mount longer and harder hours of work for

The sacrifices were not in vain since redamblancies were avoided and the financial year ended with mouramme of ecoust a modest surplus and some praspect of a surplus in the current year. It also accunt that the university could

also areant that the university cumin face the mare stringent economies to come from a firm base.

The folling value of sterling abroad increased mixely about the ability of the university to buy foreign banks and journals, a large proportion of the acquisitions for proportion of its acquisitions, for the library, he says. Despite an Increase in the library's recurrent grant fram the university, efforts

The forthenning increases in student fees have been a matter of concern to the court, as well as in the senate, and it intends to make special efforts; by means of the hardship fund, to alleviate some of

Expand release for

young workers

says NATFHE

the must severe difficulties, he says.
Progress was made during the
year in the future reoperation and the principal, and he further negotiations be local branch and mivers functions of the university court and plans were well advanced for preparing ardinances which would ties would remore to

Humber study creates 'beneficial' posts

Science Correspondent

An increasing number of university departments are making use of the Government's job creation programme to recruit anemployed seleptists for short-torm research

. The Manpawer Services Commissing, which unministers the progrumane, says more and more academics are realizing that the scope of job creation is much wider than propagation to intemployed The bulletin, which schemes, and are applying for large annual clearance for the bulleting which is schemes, and are applying for larger annual control of the control of t

programme of economic. So far 620 surveys and research implemented because it sity's state of extron-stringency. They indirectly including its entire units, making had proparation of these could be entire units, making had proparation of these could be described as accdemic or scientific and early reference, see research.

intre mind, departments of described as acedemic or scientific and carly reference, and retraining scheme.

If the lecturers me ossurance there will be ossurance there will be ossurance there will be of one—who would atherwise be out of one—who would atherwise be one year.

The meeting was allowed the commentary in the compensation was also the compensation was also their economic difficulties the secket is members as e solution of a project is one year. In other commentary in the commentary i

sewate from 600,000 people and industrial effluent from many fac-tories on both north and south buils. At present it is not for hadly pullitted contpared with other northern estuares (Tyne, Tees and Weary Incomes discharges are broken down by natural bacteria ("self-purification") and diluted by the tides. But there are fears that nosir materials in the industrial wastes, such as heavy oreists, may reduce the ability of bacteria to break down the sewage.

The biologists will be collecting water snoples from various sites at all states of the tide, and occusaring the metabolic stress of the natural bacteria and the levels of toxic substances and of organic pullotants from sewage and trade discharges. The data should show whether taxle discharges are inhibiting self-porifi-

apprayed within ten days by the job creation prugramme's Yorkshire and Humdherside area organizer, Mr W. D. Jahusun, Mr Johason has been particularly active in promoting research projects in his area: about 15 hove been jourched so far. Other examples include: examples include:

Research late the effects of sew

age effluent on freshwater molluses at Bradford University (one naw

 Investigation of shoop fiver fluke discusu, at Yark University (two jobs). and bowai concer, at Leeds Univer-sity (two jobs).

Lord Rubens (right), outgoing Chanceline af Surrey University, talking to the Duke end Duchess of Kent after a ceremony installing the Dake us the university's new Chancellar. An honarory incturate was conferred on Locd Rabens at the cere-mony in Gulldford Cethedral last week.

Government to cut education spending by £338m

Tutal spending on education by the Gavernment is planned to full by £338m in the aext two yants, according to the public expenditure blue book published this week.

The blue book, which is different in form from the unitual expenditure White Paper, projects spunding only until 1978-79, when education will cost an estlatated £7,181m.

Unlike provious years, the break down of each pragramme is to be published separately.

The hine hack does show, however, that education spending by centrul gavarance is pleaned to drap at u proportionately greater rate than spending by local authorities. This could indicate that the universities will foce cuts in 1978 to addition to the 4 per cont fall in their income expected in 1977-78. The Government's Expenditure Plants, HMSO, 60p.

Leoder, page 14

Universities in crisis

News in b Staff transfers and fewer postgraduates Bio-aeronauth in Aston's 'blueprint for survival'

ated last year.

A ropid expansion of day and iduck release for further education would help to counter employers' complaints almost school leavers, the Nathanul Association of Teachers in Further and Higher Education has recommended in its comments on the great dehate.

NATFIE points not that only 40 per caut of meaning leavers than 1th per caut of meaning less than 1th per caut of meaning less than 1th per caut of meaning und further education.

The association says it is not the for specific occupatious but to prepare people for specific occupatious but to prepare them for working life in a highly industrialized success. It euggests that schools could also prepare them for working life in a highly industrialized success. It euggests that schools could also prepare them for working life in a highly industrialized success. It euggests that schools could also prepare them for work by developing careers udvice including linked courses with further education.

Although studeot oumbers ara in-

vacaat.

He warns that a further Increasa in tuition fees far 1978-79 Is likely.

"If it is assumed that in the following yeur (1978-79) faes are reised to, say, £1,200 for undargraduates and £1,500 far nostgraduates, which in my view is nat unlikely eithough there has been no official indication at all at the momont, then ovar 50 per cent af incame would come from other than University Grants Canimittee sources." Committee sources."
Under these circumstences, he

Although student applications ere creasing (student applications ere 15 per cast up on lost year), staff cannot be increased in number ta meet the bulge end at the same time have recoure, because of the fall in student numbere expected in the 1990s, he says.

In the next two or three years, staff numbers may be increased still for 15 years if redundencies are to be a nvoided in the 1990s. This will main that erollid 1984 staff/ student rollos will be about 20 per cont greater than they era nuw, Dr Pope says.

This will have considereble side affects, he worns. It will be naces sary to move steff between dapart.

meats to obtain ea equitable belance of staff load. All new vacancias will have to be advertised internally, indicating tha basic sabjects staff will need to be eligible.

But if applicants are not forth-coming, under-employed staff in other departments will have to be recammended for treasfers, otherwise they will have to remain vacaat.

He warns that a further increasa in tuition fees far 1978-79 is likely.

"If it is assumed that in the following yeur (1978-79) faces are relsed to, say, £1,200 for undargraduates.

aget of £1,500,000 by 1980. The present figure is £500,000. He astimates that as much as half the
1980 figura will ropresent roal profit to the university because existing
staff will be able to undertake
rasearch, and so save new appointments being made.

Dr Pape warns that it is not impossible for e university to go bankrupt, howaver. In 1977/78 there
could be farther public expanditure
cuts amounting to 8 per cent (13
yer cent with inflation). The fallowing yenr the university might face
a even mare cuts, which with inflattion could be 8 por cent.

If the university wes unable to
increoso its incamo this would mean
that its predicted surplus at the end

The number of staff in British universities
was higher thian anywhere else, he
favourable staff/student ratios, and
selection at entry, but more than

tion could be 8 por cent.

If the university was unable to increase its incame this would mean that its predicted surplus at the end of 1976/77, of some than £800,000 would become e deficit of more than £340,000 in 1977/78 and of £1,600,000 in 1978/79. "This would, of course, represent complete dissett."

Dainton praise for 'getting on

with the job' A tribute to universitiee for "getting on with the job" in timos of hardship was paid by Sir Frederick Daluton, chairman of the

Week.

He told the Society of Education Officers' sonual meeting in London: "It is almost as if there has been a binding ingether of the dispareta parte of the institutions and I hape this will be recognized in due course end there will be some

teachlng.

graduata certificate of education courses in colleges the unemploy

cours in colleges the unemployment figuea was 22.7 pec cent.

Mr Peirson said that the figura for unemployment among university PGCE students would have to be put of 6.3 per cent to compare with his figures. He believed that difference was to be explained partly by the concantration of primary teaching in the collegee and pactly by the fact that colleges and polytechnics were newcomere in this field.

The proportion of all student teachers who were unemployed at tha time of last year's survey was 12 por cent.

selection at entry but more than enything else it was become of low wastege rates achieved by the considerable attention bestowed by the accdemir staff on their pupila. fees structure

Sussex savings wiped out by 4% cut

The four per cent cut planaed for universities' incame in 1977/78 could absorb Sussex University's Savings in one fell swnop, eccarding finance officer and Mr. Tony Sims, budget afficer.

Writing In the letest issue of the university's bulletin, they note that Sussex managed to save nearly factors and managed to save nearly factors.

Writing In the letest issue of the university's bulletin, they note that Sussex managed to save nearly factors.

More than 18 per cent of recent cut planaed for the first time. Just over this was from the University of the University of the function of the descortance of the university of the function of the descortance of the function of the function of the descortance of the function of the descortance of the function of the descortance of the function of the function of the function of the descortance of the function of the descortance of the function of the descortance of the function of the f finance officer and Mr. Tony Sims, (f816,353) and atter sources budget afficer. (£240,216).

Writing In the letest issue of the university's bulletin, they note that £45,000 last year, bringing its research sponsoring bodies. Of the factively small sum when it is reliefled liat the expected cut in income in 1977/78 could absorb it at once, rhey say.

Ovur 1975/76, Income exceeded (£83,555).

(£816,353) and atter sources (£240,216).

More than 18 per cent of research social studies for 21.6 per cent, orts and social studies for 21.6 per cent, orts and social studies for 21.6 per cent, orts and that the reduction of numbers in training should have a four-year retining and that the reduction of number extensive and in training should make this pursued the library and computer for 7.9 the library and computer for 7.9 to ther Government bodies 16.5 per cent (£1.1m), other service unit of the scale of the school of the solution of the individual for the disabled. All settled to the needs of the individual form the disabled. All settled to the needs of the individual feedback and that the reduction of numbers in training should have a four-year retining and that the reduction of numbers in training should make this pursued that the reduction of numbers in training should make this pursued that the reduction of numbers in training should make this pursued that the reduction of numbers in training should make this pursued that the reduction of numbers in training should make this pursued that the reduction of numbers in training should make this pursued that the reduction of numbers in training should make this pursued that the reduction of numbers in training should make this pursued that the reduction of the library and computer for 7.9 the library and camputer for 7.9 the library and camput

at Cranfield by Frances Gibb

actional committee's collectation, arts and Dulino of Students has proposed. At 15-16 or fine 13-14 schools. Attractional control of the August and the students make the august and the students make the students maked the st

AUT agrees to oppose any redundancies

those from university departments of education, and those who have taken temporary jobs other than The survey suggests that there ere et least 1,500 of the latter. Of the sample in the survey only 15 pec cent hud jubs which were related to reaching.

Alout 20 pec cent found openings in the social services and a similar number in the health service end other public services. There were 44 pec cent in ladustry or commerce.

"It is clear that the majority of students in non-teaching posts had taken up the employment as a temporary measure hoping to secure a teaching appointment later."

Mr Peirson said he was emprised by the propoction of men—41.4 per cant—atil seeking posts in particular grays. The figure for temporary was

Sloman warning on

of course, rapresent complote distributions ster.

Of minivorsities fluancial history in the past five years, Sir. Frederick said that in 1974-75 univaraities hed lost their supplementary grant, which protected tham from inflation, and also lost any kind of planning horizon, because grants were onnounced year by year.

Indancies

The hold discussions to see where the range of subject options affored might be reduced.

They should insist that proper consultations teke place; and at the

Marxist Bias

In The Times Educational Supplement this week Professor Julius Gould argues that "Schooling and Society", a major new Open university course, is heavily slanted and constitutes "a disservice both to the university and its students."

Every Friday 5p

THE TIMES **Educational Supplement** End university influence in schools-NUS

individual "assessment session

extent lenro at their own pace.

"There is an enumous range of interests and abilities within 200

students, which just hus not been cetered for in the past ", she said.

As well as assessment sessions,

but we have no major dissenters who refuse to teach h."

in the department. Their cuntuct with students has also increased.

York course

gets BBC and

ITV support

Mr Frenk Harris, course director

Crash conversion

Putting the emphasis on Europe

Strong emphasis on Europe wil be given to a new MA course in regional planning to be launched at Leuchester Pniytechnic io October. The course, recently epiprover by the Council for Nelionel Acedemic Awards, hes been deelgned for graduates in planning or related disciplines who hope to enhance their cureer prospects.

Dr Chrls Carter, foraterly at Glasgow School of Art, hes been appointed head of the lean for the course within Lunchostor's department of urban and regional planning. It will be run in conjunction with the departments of economics end politics and history.

Dr Carter said: "Wo ere aiming to develop a high degree of conpetenco lit the solving of reel planuing problems in terms of technicel and operational ability and political awereness at the regional level in the United Kingdom and Europe."

specialist qualification for architects, planners and engineers.

The Diploma in Urbait Design, which will start next spring, is intended for postgreduates with a degree in architecture, building, civil engineering, surveying, town plenning and lendscape architecture, it will be a one year full-time course run by several departments with a specialist qualification for architecture also tutorials, for which the students were split into groups of about 10, but "these tended rather to be post mortems on the lectures", said one of the lecturers, Dr. Bernard Brown. it will be a one year full-time course run by several departments with a common framework supplied by the PCL school of the environment.

Subjects to be covored include onsarration, rehabilitation of buildings and the development of urban

The Polytechnic

of North London

Ooo year full time course start-log October 1977. Recognised by the Science Research Council for tenure uf its Advanced Course Studentships.

Further details from the Hoad of Department of Mathematics, Hol-loway Road, London N7 8DB, Tel: 607 2789.

English

On March 4, The THES will publish e Special Number devo-ted to English books. Orders

for advertising space in this feature should be placed as soon as possible with John Ladbrook on 01-637 1234.

MSc in

Applications of

Computing .

Biochemistry gets the personal touch

hy Clive Cookson

their pre-clinical biochomismy course as one of the worst perts of their treining. They fear boring lectures, the namy obscure formulae end reactions that there are to learn, end feel that little attempt is

The biochemistry department at Mnnchester University Medical School is making a big effort tochange these attitudes by completely remodelling Its course for first and second-year needled students. Both the syllabus end the tenching methods have been sitered.

now taught in terms of the body's

Bernard Brown.

Under the new system the course is divided into units, each of which has course notes written by the departmental staff. These notes are now the basis of student study.

When a student thinks he ar she has mastered a unit he arrangee an

UNIVERSITY OF LONDON GOLDSMITHS' COLLEGE

Department of Advenced Studies in Education Applications from both non-graduales and graduoles are invited for the following 2-year part-time courage commencing in Octabor, 1871. All load to awards of the

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M.A. IN LANGUAGE & LITERATURE IN EDUCATION

Enquiries ore elso invited from teachers and ethers intereded in undertaking requestry for the M.Phil. and Ph.O. degrees in Education.
Obleme applicants should be qualified teachers with notically. 3 years experience, but social workers and others may else be considered. Higher degree applicants should held a good Olptomo or 6.Ed.

Details from The Admissions Office (Iel, 632 7171, est. 228)

with his tutor.

science correspondent

"We try not to think of this as Many medical students look upon an exam. The idea is for the stuon", Dr Evane said. Assessment scesions do not count towards the terai's faculty exeminations. The liming of the sessions is flexlble within a margin of about three made to bring out the subject's intweeks, so students can to soute portance for doctors.

> students have to attend one group tutoriol n week. There is also a new range of uptional tuloriels—"specialist tutorials for the Inp end of the market and revision tutoriola for the bottom end. Sa far, the voluntary sessions have been well attended.

In the new course, introduced in September, the emphasis is firmly on the relevance of biochemistry to clinical medicine. The subject is

"We cut out all those sections A new diploma course to be mounted at the Polytechnic of Central London could be evaluable specialist qualification for architects, planners and engineers.

The Diplomatic Architecture of the reorganizing team.

The Diplomatic Architecture of the reorganizing team.

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Germen Studies (88JC) or
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Linguistice (88JW) or
Philosophy of Human Communication (98JW):
This is an integraled

honoute course with e duretion of thrae yeers or lour yeers which would include one yeers lingula-

include ona yeer's lingula-lic experience ebroed or e one year professionel placement. Further information from Miss R. Milchell, Registry, The University of Asion in airmingham, Goola Green, airmingham, 44 7ET.

OF ASTON

Lecturers plan | Accountants course without | can become lecturers

by Judith Judd

Locturers in Sheffield University's an exam. The idea is for the stu-dent to find out how he is getting a course which they hope will even-

n course which they hope will eventually run without them.

They have taken on the Hangladesh University of Engineering and Technulogy as "n favourine child" and mainted a unique joint degree course. Despite the problems of organizing a course between parties separated by thousands of utiles and different educational philasophies, the course is now firmly phies, the course is now firmly launched. The second hatch of stidents will complete the English part of it in the spring.

of it in the spring.

Students spend one year at Sheffield, return to Bangladesh to write a dissertation in the second year, and eventually acquire at MA. The first year is taken up with hasic plenning subjects, including projects.

So far students on the course, which has been running for two years, have been either civil servants or government employees.

The alm is to create planners who can solve llanghidesh's enorminus planning problems and make a contribution to the development of the present five-year plan. When this was launched there were only 13 qualified planners in the whole of Bangladesh.

Other innovations include an audiovisuel library end a new reading room where multiple copies of important articles are available. One lecture is still given each week, and the students have to write essays and attend problem Dr Evans and her colleagues are Banglailesh Mr Charles Chogull, senior tutor

Dr Evans and her colleagues are pleased with the students' reaction to the new course. Their response was tested with a detailed questionaire at the end of last term.

Reaction front the rest of the medical school has been "mixed", Dr Evans said. "There are members of other departments and even one are two in our own who are not testally committed to the course—but we have no major dissenters. n charge of the course, says: "We in charge of the course, says: "We are in some tways naive interested in influencing the development of the Boughalesh University of Engineering and Technology as a whole. You could call the process osmosis. We have the head of the planning department here in Sheffield at the moment working on his PhD. One effect of the changes has been to spread the teaching load anuch many evenly over the 15 academics

field at the moment working on his PhD.

"Some of our stuff will go over to Bangladesh in supervise students writing their dissertations in their second year. We hape that we can show stuff there how to from not a research MA by giving flown some on the inh tradulum.

show staff there how to from our a research MA by giving aloration some on-the-jub training.

"The tilen is in alo ourselves our of a job eventually, though I think this will be a long, show process. Bangladesh will meet more than a single planning school in the future."

The course was born when Processor J. R. Jannes, head of Sheffield's planning department, spent a year at the Bangladesh university and came back convinced that the new-look scheme was one of the most valuable contributions that nuiversities could make in developting countries.

BBC and ITV education officers are to cooporate with York University in producing what is thought to be the first postgraduate diploma course in educational broadcesting.

The course, which is expected stert in January, 1978, with 12 structures with at least five yeers' teaching experience, to further and higher aducation lecturers, and to training officers in institutions such as libraries, police colleges, HM forces and the ustional training boards.

One term will be spent full time.

One term will be spent full-time of the university, and the following two terms at the students' own lastitutions, where they will work on individual projects. There bave, of course, been difficulties arising from the decision to split the course between England and Bangladesh. Apart from the

obvious one of cummunicatium, two different approaches to higher education heve had to be reconciled.

Much of Sheffield's assessment is continuous. The Banglanesh system relies heavily on crealits and examinations. The "Bangladeshis have also hed to be persuaded of the value of a course which emplayed is that the transport, planning and Education officere and producers from local radio and television stations will visit the university and discuss the background to production, research methoda used and the analysia conducted efter a programme has been transmitted. Students will make their conducts. Students will make thoir own programmes in the university's audiovisual centre and analyse the local output from BBC and ITV networks.

sizes that transport, planning and economics are all closely related. Planning and conomics are very much divorced in Brangladesh.

An attempt has been made to get away from a study of the British planning system except in so far as it relates to others. Much project work is done at Sheffield, "We can give them some idea of most things and a lectorer in educational broad-casting, said: "Over tho pest five years there has been a big expan-sion in educational broadcasting. It is time that teachers and others seriously exemined this develop-ment." give litem some illen of most things they are likely to find in Bangla-desh short of a monsoon", Dr

Choquill says.

The first year course includes all major espects of planning: the nature of the British planning sys-Crash convarsion enteres for arts A level students who wish to read for science dogrees are help offered at University College, Cardiff. They lest one year, end can be taken in chemistry, physics, bibliogy mather and methodologies. chemistry, physics, biblogy, mathematics (pure and applied), and geology. At present, however, students are unable to obtain local authority, grants for these courses:

mic problem, and survey techniques and methodologies.

Students will also be taught about the planning problems of development, the role of regions, housing, villages, urban sociology, analytical techniques and methodology.

ject to receiving London approvel)

BAdmin

Library year A new degree designed to a students for n career in gr

Mr Juck Jones tells us that this is the Year of the Beaver, and he may well be right. But to me it is also the Year of the Librarian, because it is the cemenary of the Library Association. Although generally believed to be primurily concerned with public libraries the association has, through its 99 years of existence, represented librarians of all kinds. By the establishment and maintenance of high standards of library provision and service, and by concern for the proper education and training of librarians, it has done much of direct benefit to academic libraries and librarians. Its ancy, commerce or public ser will be kaunched by Dundeely. with the faunched by Dunde it.

Sity in Octaber.

The BAdmin will combine mics and law and provide us, in accountancy and finance is a comman first year sudent specialize in the working of the miblic or the neighbor. specialize in the workings of the public or the private sand to the corriculum is well say to the needs of intending say to the needs of intending say to the needs of intending say to the properties will affect able preparation for training the properties of the account membership of the account builes in the private and provides in the private sent in the accolemic world. It is a matter for great satisfaction that Sir Frederick Dainton has accepted the presidency of the association in its humbruilth year.

Professional remedial worken have the chance to broaden's knowledge of all brancher's habilitation in a new fall

diploma course in remedial its starring at Southumpton Unke

The one-year course is a specifically to post-registary hysiotherapists, occupationally

pists, and remedial gran although mayone with some of once of reliabilitation will be subtred.

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tion in the science of

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of modern industry. yourself double the chart of embarking on a profits

ideally eullad to the new

in Imparial College Pin

pectue available.

Chemical Engineering

Course in

or Chemistry

in October.

Therapy for No preference therapists

Whenever Ilbrary resources are being ullocated between foculties or subject areas, one can be sure the argument will be advanced that some disciplines ere "book-based" and therefore merit preferential treatment. Contenders for this preference are law, history, sociel sciences, languages and art—indeed ell the topics which do not require the support of highly expensive scientific or technological laboretories.

One can understand why the claim is promoted because, if successful, it provides an opportunity to divert some financial resources away from the apparatus-based subjects which already receive an overlarge slice of the tural hudger cake of the institution.

On the other hand, as a librarian,

It was suggested by Pros Hugh Glanville, who hold Furnes chair of relabilities Southampton University h & management, opplied statistics On the other hand, as a Abrarian On the other hand, as a librarian, I wonder whether the case is valid. Superficially there would seem to be a special need where the octual liberature provided is the raw materiel for study and a fortiori when original research is carried out upon it. The phrase one hears is, "the library is our laboretory". Nevertheless, on closer consideration, the case is not so defensible.

case is not so defensible.

In the first place the library of every subject needs a fundamental reference stock the cost of which hardly varies from discipline to discipline, and which can take up between a querter end a third of the book fund. Secondly, recourse to libraries is continually needed as a background to lectures, for self-instruction, and to provide ideas for the extension of knowledge—a situation which holds with equal truth in all subject areas.

The high pult cost of rare books

in all subject areas.

The high unit cost of rare books and manuscripts for the humanities is metched in scientific and technological fields becausa current information there appears in journels and obstracts which are very exponsive compared with monograph material. None of the aurveys of scademic librory use has shown any markedly different behaviour pattern between students in the humanities had sciences. Usually lotarorganization variations are much greater than those batween illactivities in the same organization. Thus I think it is not reasonable to expect automatic preferential library funding for book-based disciplines.

Pepper's ghost

The less straightforward letters of Inquiry from the public often land finally on my desk. A fair proportion concern the aorly history of the Royal Polytechnic Institution, whose premises Qolotin, Hogg, grandfather of the present Lord Hallsham, acquired to 1882 for his Youth's Christion Institute. From this catorolliar came the chrysnis this catorolliar came the chrysnis of Regent Street Polytechnic and the butterfly of PCL.

The Ragistrar.

IMPERIAL COLLEGE OF A valuable collection of archives relating to the earlier lostitution on the Regent Street site. The Royol Polytechnic was a fascinating body London SW7 2AZ and I can readily be tempted to telaphone 01-589 511 explore its bistory.

(note: this course is offered to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receiving University Established in 1838 by public subject to receive the control of the contro

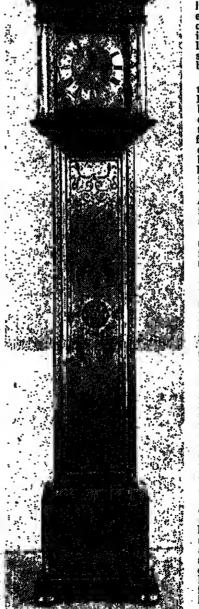
Don's diary

festations of the popular interest in science their gaining momentum. The Great Hall held a permanent exhibition of scientific wonders and manufactures. One of the more umbitious exhibits was a diving hell in which five or six persons could be lowered into a large tank of water. Blundin tas a cut-on model to regulate versallarly. model) regularly trindled his wheelbarrow on a wire across the hall. A large electrical machine with a 26 spark could, and once flid, kill sheep instantly.

Compled with many such plea-sures, lecture-demonstrations of mussive Victorian magnificence daily delighted and sometimes affrighted

America and Australia for my mention. What a colourful character John Henry Pepper turns out to have been. He was elected a Fellow of the Chemical Society when only 22 years old end in 1848 juined the staff of the Royal Pulytechnic Institution whera he was appointed lecturer and enalytical chemical tricks and magic, and quickly attracted e following for his theatrical manner. and magic, and quickly attracted e Which reminds me to mention following for his theatrical manner. His introduction of Shakespearlan quotations into lectures on chemistry, astronomy, and electrical science captivated his audiences.

There is much controversy about who really invented the ghost lilusium, but indoubtedly Pepper perfected its practical presentation and under his showmanship it become a star attraction and overshadowed for New Library World. It seemed all his other attainments, it was performed before royalty at Windsor and seen by at leust 250,000 people at the polyrechnic.



Never mind the time, look at the quality. A seventeenth-century Boulle longcose clock worth well over £1,000.

Time machines

From the same collection of archives From the same collection of archives. I was able to supply the Science Mircom with a drawing of the Science Mircom with a drawing of the Science Bant's electrically controlled do 1 on the offside of the building life torum they invited me to the opening of the univernity current special exhibition." Electrifying Title, a welcome invitation because of my interest in time-keeping.

The and the hundered equivalent of fi-herman's puries; of verge escape-ments layingly filed from solid brass, woomsfree long cases found in country corrages, and wardies ad-justed to amazing standards of ac-

Many people present wore more than one watch, so I was glad I had recently changed my today fork for mariz and this and have to keep my cuffs ton far down.

The exhibition is well worth a visit, although the continuing attempts in squeeze just a little more occuracy out of a pendulum delighted and sometimes affrighted the crowds. The great lantern was booked on as a near-miracle. Many of these demonstrations included spectral apparitions, an effect created by the illusion known as "Pepper's Ghasi".

Connecidentally, inquiries about Pepper recently arrived from America and Australia for my attention. What a colourful character John Henry Pepper turns out to a character of the proper turns out to a character out to the condition at the Royal Institute of the condition at the Royal Institute of the condition at the Royal Institute of the continuing at the continuing at the continuing with the continuing at the continuing at the continuing with the contin Last summer I participated in an

article on self-renewing libraries for New Library World. It seemed to me that, as the member of the editorial board with a watching brief for scattemic library matters, I should make known my own views of the could be controlled to the controlled to the second of the on so controversial o topic. Since the Atkinsotr report was published there hee been a condemnetory outcry from acsdemic librarians, in THES and in the periodicals of librarianship, and so far only one supporter, K. G. E. Harris of Newcastle upon Tyne Polytechnic, who, in a letter to THES on July 16 last, deted to welcome the Idea of salf-renewing libraries as a major breakthrough.

In order not to be side-tracked by In order not to be side-tracked by the amotive polemics of UGC grante, I am coacentrating on the principle by taking up a beste point which overyone seems to have missed in thoir hot-under-the-coller fight for funds. It would appear that many ecademics end academic librariane believe that because the universe of knowledge is continuously expending, research libraries must grow ever lorger to accommodate it. Access to all knowledge is seen as a fundamental necessity for civilized mon.

I am coacentrating on the principle by taking up a besic point which overyone seems to have missed in thoir hot-under-the-coller fight for funds. It would appear that many ecademics end academic librariane believe that because the universe of knowledge is continuously expending, research libraries must grow evar lorger to accommodota it. Access to all knowledge is seen as a fundamental necessity for civilized mon.

This fallacy I fried to expose in my professorial lecture on the information explosion (reprinted in the Library Association Record, 76, (4) April, 1974, p. 63-68). Study of the growth of knowledge ahows that it must be controlled by a logistic, not exponeotial law, and libraries must ultimetely be limited occording to the resources available to supply and exploit, their contant. Whan librarians lake it for granted thot their task is to storo all knowledge ond organiza it for equally spoedy accessibility they are fallacionaly attempting what is inharently impossibla. It is also unnecessary, because logistic forcee will hold growth to whet is possible with available resources and impose necessary, because logistic forces will hold growth to what is possible with available resources and impose quality controls which will doter mine thet some low-grode or currently non-useful information, though theoretically ethic conceptually in existence, will for practical purposes become appributed.

Looked at in this way the concept of self-renewing libraries becomes acceptable and their activities are students represent a self-renewing libraries becomes acceptable and their activities are students represent a self-renewing libraries becomes acceptable and their activities are students represent a self-renewing libraries becomes acceptable and their activities are students represent a self-renewing libraries becomes acceptable and their activities are students represent a sion in all childran and adults.

So, what is the problom? Put precisely, the whole educational base for the performing or taken and adults.

So, what is the problom? Put precisely, the whole educational base for the cisely, the whole educational base for the conceptable available and adults.

So, what is the problom? Put precisely, the whole educational base for the performing or taken and adults.

So, what is the problom? Put precisely, the whole educational base for the conceptable available for the conceptable available for process and impose cisely, the whole educational base for the whole educa

Performing at risk



James Porter

OECD seminar in Philadelphia, A number of memories linger, par-

esteemed ballet troupes.

The programme, as with everything else in Philadelphia that week, was grimly bicentenninl, so the company at the Simbert Theatre was putting on a "bicentennial salue to American danco". My Englishuess was clearly epparent to a nearby American family who, however, supprised me by the lyrical account they gave uf the recent visit to the United States of the Rayal Ballat Company. The conversation soon included warmly oppreciative comments about the London theatre and ble quality of British nctors.

Many other Americans ere, af

British nctors.

Many other Americans ere, af course, appreciating such joys in what now seems to be a permanent tourist season in London. You need only go to any theatre or concert half to be convitted that the performing arts represent one of Britain's most distinctive and significant international contributions.

At the contemps level shows

mindagery asserds, and virtually all dance and drama strilents are sup-ported at the dramation of the Lea

All performing arts, andents have long suffered from the arbitrary and survey treatment of all students contains maker the discretionary scheme. More specialized training schools of dance and drains keep going in the sleinlerest of resnucces and rely absolutely upon the feet from students paid from public funds.

They now face the real challenge to their existence treated by the fact that a number of authorities have already said that they are going to either reduce the number of discretionary awards or lower the autount of money paid under them, while there is a possibility that discretionary awards may be completely phased out.

When dealing with the arts it is unfortunate that the understandable wish in save money is often combined with arbitrary judgments about the value of students pursuing courses in their post-school education which are so obviously exciting and enjoyable and which represent on implicit challenge to the current emphasis upon training lutiminstrial and commercial skills. The results of a substantial reduction in the number and level of discretionary awards will unstuditelly lead to the closure of a substantial number of courses and at some When dealing with the arts it number of courses and of some institutions devoted to the training and cilicution of actors and dancers,

of memories linger, particularly the explosion of fireworks around the aircraft as we left Philadelphia olirport in the late evening of July 4. However, oside from the sembar which had e fascination of firework interesting evenings was spout at the Ponnsylvania Ballet—regarded as one of the country's most esteemed ballet troupes.

The programme, as with everything else in Philadelphia thot week, was grintly hicentennial, so the company at the Sinbert Theatre was putting on a "bicentennial seluce to American dance". My Englishness was clearly apparent to a nearby American family who, lowever, supprised me by the lyrical account they gave uf the recent visit to the United Strates of the Rayal Ballat Company. The converse of the part of the recent week well known drama schoole. well known drama schoole.

well known drama schoole.

A way out of the dilentme is not easy to find. A few major institutions could attempt to launch Diploma of Higher Education and degrea courses. The CNAA is experienced in considering courses which have a strong precticel and procass-oriented character. At important breakthrough for this country (although long established in the United States) would be to establish higher aducation awards in the performing arts which are ectually concerned with excellence in the practice of the art. Certain of the trew colleges of higher education could olso play a significant role in this erce.

It is also tempting to suggest that

It is also tempting to suggest that discretionery awards abould be abolished and that they should be replaced by mandatury ones efter a careful review af all those owerils to which discretion has been opplied

It is passible to make two furthe It is passible to make two further suggestions. First, local authorities should be parsuaded to evoid cutting out any complete category of discretionary ewards—such as elistudents applying for places to etudy dance, drama or music. Thus the erts should not suffer more than any other sector. It follows further that discretionary awards abputed not be plassed out altogother in any authority but that a busic number of authority but that a busic number of awards covering the current major areas should be retained, bowever

though thaoretically etidl conceptually in existence, will for practically in the open description of the concept of self-renewing libraries becomes acceptable ead their aslabilistiment linevitobla. This theory is the first acceptable ead their aslabilistiment linevitobla. This theory is the first attempt to provide a procticoble and to demonstrate liow, in spite of the courinulag growth of knowledge, it is possible to give a saxisfoctory service from libraries of limited size.

Wilfred Ashworth the content of Contral London.

The author is their librarian at the Polyteolanic of Contral London.

The author is their librarian at the Polyteolanic of Contral London.

The author is their librarian at the process of the cost is borine all, it is one ungent to make a content of the particular local enthorities to economize in public oxponditure might lead them to which the student is applying.

As we know, it is both and bazardous to draw up a list of institutions which will nevitably lead them to weaken fudumentally tho whole education and training system which is and bazardous to draw up a list of institutions which will nevitably and bazardous to draw up a list of institutions which the student is applying.

As we know, it is both and bazardous to draw up a list of institutions which the students who some the discretion which is education and training system while in which the student is applying.

As we know, it is both and bazardous to draw up a list of institutions which the sudents who she have the said bazardous to draw up a list of institutions which the sudents who she have the said bazardous to draw up a list of institutions which in the which the students who she have the said bazardous to draw up a list of institutions which in the which the student is applying.

As we know, it is bead to which the wideling the which the said bazardous to draw up a list of institutio

sities. But in two important respects the context in which they

In the first of three reports, Peter Wilby looks at Australia's new innversities

Raymond W. Snell, deputy direc-Potroleum Engineering Directorate he Department of Energy, Heriotor the Department of Energy, Remoi-Watt University, has been appointed on honorary professor by the university. Professor Snell'a appointment in the first instance will be for five years utill September 1981.

Mr P. C. A. Wishart, at present on the staff of King's College, London, has been appointed to the chair of music at Reading University from the end of this academic year. He will succeed Professor Rouald Woodham

Professor J. R. Carless, holder of the chair of pharmaceuries in Chelsea College, Loodon University, has been appointed to the chair of tharmaceuties at the School of Pharmacy from October 1, 1977.

Dr A. M. Mathews, sentor research psychologist in the department of psychiatry et Oxford University, has been appointed to the choir of psycho-logy et St George's Hospital Medical School, London.

Mrs D. E. C. Wedderburn, Director of the Industrial Sociology Unit at Imperial College, London University, has been appointed to the chair of tudustrial sociology at Imperial College.

The title of professor of physiology has been conferred on Dr. M. W. B. Bradbury in respect of his post at King's College, London University.

The title of professor of mathemetics has been conferred on Dr. J. W. Essom in respect of his fast at Westfield College, London University.

Professor Blizabsth F. McKcown has been appointed to the Musgrave chair of pathology at The Queen's University of Bolizace

Noticeboard is compiled by Patricia Santinelli and Pauline Gamble

Course news

workshop on "National and Regional the Department of Civil Englocering as UMIST from March 28-30. It is designed for senior executives in government and water pulliorities and consulting engineers involved in water resource, administration and eogineer-ing in the United Kingdom and oversess. Topics will include : management and quality control problems relevant und to developing countries. Course urganizer: Professor Sir Norman Rowniree. Course fee : £125.

if A practical introduction to electronics "O one-week coorse, will be held by the department of pure and applied physics at UMIST in collaboration with the North-West Regional Advisory Council for Further Education from April 18-22. The course which requires totally a knowledge of Ohm's low, will combine brief periods of formal instruction with inhoratory practicals on circoit building and testing. It is designed typically for teachers and general technical stoff of small tirms interested in testing control techniques and equipment. Fee: £60 (school-teachers £15), Enquiries for both courses to the Registrar, UMIST, PO lloy 88, Marchester M60 1QD. A practical introduction to electron

"Settlements of the Early Iron Age in Britain and Northern France", a sentinar organized by the department of external stodies of Oxford University, will be held from March 28-31 at Rewley Hoose, Wellington Square, Oxford. This is a folial sealmar with French archaeologists in exchange resolts of current work and techniques of investigotion into the early Iron Age. Lectures will be given in English or French and topics will include: "The Iron Age Seltfement at Bishopstone and its economy" by M. Bell of the Institute of Archaeology, London, and "Prehistoric Fleid Systems in Britain and Europe: some methods of onalysis" by R. Bradley of Beauing University, Fees: Shared 120, shape 126 [full reshiential]. Applications not later than February 28 to the course secretary, Oxford University department for externol studies of the above addiress.

information on Bosiness Education Condell courses beginning in Septentber 1977 and leading to various BEC awards at polytechnic, technical and further education colleges throughout the country will be available from May from the BEC, 76 Portland Place, London WIN 4AA.

Universities

Asion
Reader: Dr N. C. Graham (educuilonal ingolry). Senior lecturer: Dr
R. K. Flich (physicst. Lecturers: M. J.
Breckio and R. P. Clayton (safety and
byglene); J. Filgy (civil engineering).
Visiting lecturer: J. E. White (civil
engineering).

Belfost

Belfost
Promolons in reader: Dr A. S.
Bahrani (mechanical and industrial engiueering); Dr D. Bahrave (agricultural and food chemistry); Dr K. L.
Bell (applied mathematics and theoreticsi physics); Dr D. W. Halton (200logy); Dr M. II. Key and Dr J. F.
Williams (pure and applied physics);
Dr F. C. Monds (electrical and electronic ongineering); Dr J. T. Patterson
(agricultural and lood bacteriology).
Lecturer: B. E. Richordson (English).
Tempurary lecturer: F. A. O'Coonor
(therapeutics and pharmacology). ierapeutics and pharmacology).

Bryer (Byzabilue stadies); Dr. W. F. Roberts (applied metallogy); Dr. J. N. Pratt. (metallorgical thermo-chemi-stry); Dr. M. Pell (sociology).

Readers: Itr M. W. Steward (Torono-mology) Landon School in Hygiette and Tropical Medicine; A. H. Brank (Gaediatric dentistry) Landon Haspital Medical College. This of reader: Itr E. M. Brennan (English) Westfield Collons College.

Warden, Whiteknights Half: Allehael A. Promifingt.

Strutbrlyde
Lecturers: N. M. Maywell tarchitecture and building sciencel; M. Fergason-Pell (bloenglucering); M. H. Jackson (civil englucering); M. H. Jackson (civil englucering); I. Maclean
(food scienco and murridon); R. PryceJones (pharmacentical chemistry); J.
Jackson (physiology and pharmacology); J. A. Clayden (production management and manufacturing technology); G. Morag Hunner (psycondogy),
Research fellows: U. Tarachand (hinchemistry); A. Pipe (biology); I. C.
Somerville (electrical engineering),
G. J. Gill (David Livingstone Institute
of Overseas Development Studies); C.
Patel (metallurgy); M. J. A. Haldh,
D. B. Livingstone and R. G. Michel



" Lead him and Assistant R in Bushness Stadles Gond T thome of the Rasmiss Education conferences at Centre for Teacher 1988 Installing, City of Brailights back, We disorder Road, 1988 through an

neadmine achievements that there connate courses bearing the North that shipbuilding the polyterhole; Lord the North that specialize in a single or cutvities as an MP.

The University of Original and than specialize in a single or cutvities as an MP.

The University of Original and that specialize in a single or cutvities as an MP.

The University of Original and that specialize in a single or could to survive the student mood between Johanna Robert the could not survive the student mood of the letter of the le

spore and applied chemisms Secourt (shiphuliding and as tecture); M. J. Duppy, dynamics and finid metang.

Palytechnics Lanchesler Reader: II. engineering),

Overseas

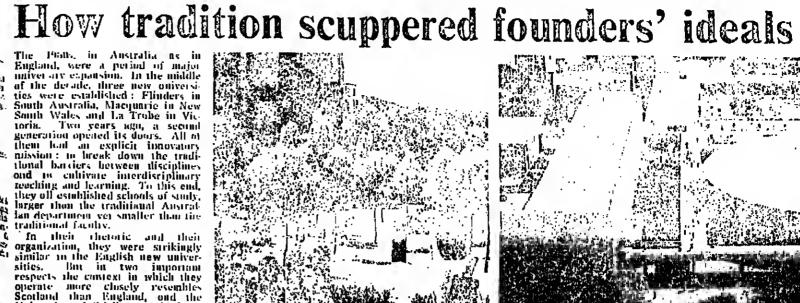
The Council of Engineering in the English new universities. But in two important respects the context in which they operate more closely resembles stand organizatios costing. Intitain's 170,000 charterd in more approportate comparison than, has elected Air Marshi 2; Pringle as chalmos set a more approportate comparison than, has elected Air Marshi 2; Pringle as chalmos set a more approportate comparison than, has elected as vice-technosis in more approportate comparison than, and the more purpoportate comparison than, and the most Australian student nor melly attends a local university—melly attends a local university—m

The Aostrslien new universities were not reacting ageinst early specialization. The Lanraster model of simply spreading the student's first-year work over a brooder field would have been maeningless. It would have mesut more of the seme. The possibilities for innovation lay in two opposite directions: admitting students to the whole university, rather than schools or faculties, and ellowing them almost unlimited choice on a crodit or unit besis; or providing integrated programmss thet would constroin the student's choica to a greater extent than normal.

The first of the mid-sixties crop—Finders—aspired to the latter madel. Peter Kormel, its first vice—chancellar, wrate: "It was intended that this schools would be physical entities and thet students would pursue courses mainly to one school. This: should lovolve a sense of belonging to a school, which the average pass student taking courses in several different departments has traditionally lacked." Studeoto were offered a limited number of programmes are based on a study in denth of two disciplines (about tyo-thirds of the work) together with three cognate courses bearing acona relation to the major disciplinal relation to the

day conference organized by a cation of Polyrechair label community, will be hid as 21 at the Polyrichair of Robb Haddleston Houd, London Sciton Green, department of Mulles, North London Act 129-133 Cambon High Side?

Five honorary fellowship with ferred by Sonderland Pales Friday, June 3, 1977, on the Sidney Chaplin for his complete the Chapter of the Complete the Chapter of the Chapte with three cognate courses bearing aoma relation to the major disciplioes. In science, oil students reod a common first yeer (physics, chamistry, blology and mathematica) and them specialize in a single or double discipline programme.



Students relox in the saushine at Macquarle University; right, the central camens at Lo Trohe.

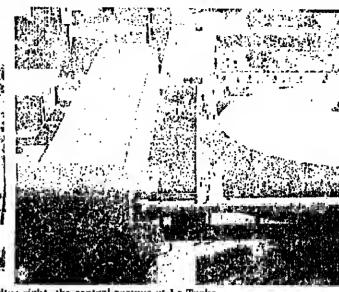
nnion.
Today La Trobe, eccording to its vice-chancellor, Dr David Myors, has "departments of a fairly traditional kind, though they don't appear in the statutes." At Macquerle, discipline groups hove formed under professors, some of which hove been formally recognized as school sub-committees. At Filnders, the vice-chancellor, Professor Roger Russall, says that fesoor Roger Russall, says that "disciplines have gained more significance but no formal constitutions!

racognition."

Whatever the details of their curriculum and organization, oil three universities nailed thair colours to the mast of interdisciplinarity. Disciplinas were to be integrated, whether on a grend scale within progrommes or on a smaller scale in unit courses. And in oil three universities some elements of this founding ideal surviva, though their significance is a metter of organient.

Al Flinders, for example, the

Al Flinders, for example, the social sciences achool is in the second year of an experiment which luvolves all students taking 12 units (usonly two courses) lo interdisciplinary topics. The choice includes: Aborigines and Australian society; revolution; societ change in Europo end Asie; leloure and recreation; daologrepby; public decision making; and the ecology



Macquarie has been able to main of man and his society. Ecology tain its founding ideal with fur involves lecturers from economics, greater success than Flinders, (Inly geography and biology, Lelsure and the addition of a law school, which recreation involves lecturers from would be swomped in a system of education, a sychology and geography beat led to the modification.

marginine in sincera unite ta minimus tain it is founding ideal with far grooter success thus Flinders. Culty ille addition of a law school, which are would be swomped in a system of open entry, hos led to the modification of the original unimission principle.

La Trobe, leaving towards the Flinders railier thon the Macquarlo model, repidly ebandoned its own version of that familiar now university with the elephant, the common first yeer course. Humanilies had an intriguing "great books" ocleuse, which involved students reading a limited scan major works thring esoay on them. The idea was that it would bring students ond stuff into more tilled the students work and extrees the mastres. There were no marks or grootes and no restrictions on the books. The student could read only thing provided his "confession" in the students wrote and extrees the meselves. There were no marks or grootes and no restrictions on the books. The student could read only thing provided his "confession" in the students work and extrees sor" also uperced to the most thing was into report to the could a lecture," on the grounds of sage them shally stilled "recalled a lecturer," on the grounds of sage illustrations of the sudents work and extractions on the books. The student could a lecturer, on the grounds of sage illustrations of the edight like unstructured relations with students and they might elleviate the students work. You might elleviate the moin thing was into report to be dispersed around the colleges. As Kent rocked to that in tull-tilno manators, high tables, gowns and strict rules. Academic subjects were to be dispersed around the colleges. As Kent rocked to the lamp personelity of Melbourne.

The closest onalogy among its English contemporaries is Keot. La Troba also set up colleges with full-tilno manators, high tables, gowns and strict rules. Academic subjects were to be dispersed. Ton colleges were to be dispersed around the colleges. As Kent rocked to the line personelity of Melbourne.

Alas, the students had no desire

ductory first semester course in the school of behavioural sciences, for school of behavioural sciences, for example, which encompasses play-chology, sociology and unthropology through the theme of aggression. Ibbl Cunnell, furmerly at Flinders and now professor of sociology at Macquerie, said: "In the newer universities, people who are committed to interdisciplinary work do get a better show. Most of my research is in interdisciplinary fields. But the trouble is that the whole organization of ecadeorics is round professors, end professors are additionally and professors, and professors are additionally and professors, and professors are an integrated medical school and teaching bospital on its campus. round professors, end professors are defined in terms of disciplines. The junior steff member naturelly looks up vertically, not horizontally."

innior steff member anturelly tooks in vertically, not horizontally."

None of the three universities attempted to force students to cross the arts-scienca borderline—"no culturo by compulsion "was Professor Mitchell's slogam. But Macsouries in science, mathematics, languages, sociology, and acout that ere delilierotely designed for non-specialists end ero sometimes interdisciplinory. La Trobo's school of biological actences has just interdisciplinory. La Trobo's school of biological actences has just interdisciplinory. La Trobo's school of dued o new first-yoar biology course that assumes the student has a perior knowledge of the subject end is elined primerily at erto and social sciences students.

If the new Australian universities have failed to make nunch progress in removing berriero between a university study and the professional promotory (end interdisciplinary) aspect of the university. It offers in anovotory (end interdisciplinary) aspect of the university. It offers in a four-yeer BA (DipEd) in which its cleir education, subject education is, perhaps, the most to revive their innovatious. With no funds for the delly life of a hospital. This will have a lecture halls, the same lecture halls, the same instructors, the same intructors, the same intructors and physiothera as students ourses and physiothera as students ourses and physiothera intructors. The bean coal coal callestion. The

by the properties of the horizon."

Like many new university neademake he dreve a dispiriting lesson:

"Whetever the inionions, it always ends up multidisciplinary. People come in turn and present their disciplinary person is a very rare bird indeed."

Another lacturer's: ossessment was: "Interdisciplinary studies exist, but they are not hugsly significent. You couldn't oay there is constant cooperation between departments—it's a struggle to maintain links. Even within departments, the trend is towards one-person, not cooperative courses."

Macquerle also bas its ioter disciplinary experiments—an lotro
miverity study ond the professional ded and macquerle also bas its ioter data. Macquerle also bas its ioter data interdisciplinary studies of nonteducation subject each of aducation but in the role, want university subject school end from the state education outhout in the role, want university subject school end from the state education outhout in the role, want university subject school end from the state education outhout in the role, want university subject school end from the state education outhout in the role, want university subject school end from the state of each indication. With the orthodox sense, they create integroted.

Within the university, curriculum and instruction in school subjects of two to three integrates of the university subject school end from the state education outhout in school subjects of two to three integrates of the university subject school end from the state education outhout in the role, want university subject school end from the steep of the university subject school end from the state of the university subject school end from the state of the university subject school end from the state of the university of

From the beginning of their courses, students are in contact with petients and with the delly life of a hospital. Thoy share the same lecturo halls, the same instructors, the same librory end the same dining rooms as student ourses and physiotherapists from the local college of advenced aducation. The school has no departments and the research

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OU programmes February 5 to 11

Epstein's "Adam" from an exhibition of photogrophs by Fellx II. Man of the National Book Leogue, 7 Albemorle Street, London until February Admission free.

Saturday February 5

C.48 Technology Foundation Course: InTochnology Foundation Course: InT

There are no Open University programmes on Sunday, Published 6. Monday February 7

18.30 The Royal Institute of Chemistry Contonary 1977-1977 of Chemistry Friday February 11 and Popular Science Education Tuesday February 8

RADIO O LVHFT 18.00 Aris Foundation Course : The Nature of the Humanities : Losic : infreduction (A) 00 ; prog 1).

Wednesday February 9 Weuncouse,
Buc a

17.45 Electromagnetics and Electronice:
Lectrons in Motion 175263; proc 00.30

18.10 Introduction to Encineering Mechanics; Case Strain for Engineering 00.40

18.35, Science Foundation Course 100.15

18.35, Science Foundatio

Thursday February 10

19.00 Open Univer

Replacement programmes for north Scotland 24.00 Social Sciences; The Use of Libert-60.80 Den Forum—1: Workly Many-Inc 170 gramme for Students and Statt.

18.30 The Royal Institute of Chemistry Conjuncty 1877-2777 : The Huge-Green Chemistry On : Contemporary RADIO 3 [VHP]

18.05 Brento Poundation Course: Introduction (8100) prop llj. CARY! O' GIBAR Replacement program

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an Bradley sees the chance for a new Matthew Arnold

It is not surprising that even after regular visits for several years tho arrive lete shortly for research experience, but all those adready perience, but all those adready and but all those adready way. Many teachers all those the lunging and forcing laguage find that me of the union here as part of a British Council reciprocal scholarship scheme. For the second year running, 18 British students of language and philosophy are olso beneficing from the orrangsment, with a yeor's study in China. The rest of the chinese students are financed by their government.

selected for the trip to England in much the same way as university places in Cblna are allocated: their ability, and the recommendation of their academic departments, fellow students and workmates, all have an important part to play in the flual selection.

Most of the course fellowed



was also the first of the famous and see fooles which have contributed on much to Fronce's supremacy or Britain in the field of the cache, in British schools, and against science, in British against science, in British schools, and against science, in British schools, and against science, in British against science, and against science, in British against science, in British against science, in British against science, and the science and against science, in British a

readiness to integral with the British way a strike o lucreficial side of critain could afford greater liberalism of the Source do

pchievements.

In France, on the other hand, as early as 1800, a merchant from Lyon, Vital Roux, was advocating the development of special schools of commerce. In 1820 a group of industrialities and lendage set on the

these topies in the great education delate were to be confined to be consisted to be confined to be consisted to be confined to be consisted to be confined to be to be confined to be to be confined to be consisted to be consisted to be consisted to be to be consisted to

n proper system of technicol educa-tion in the Victorian period, and the reusons for this, have been discussed in a recent article by Margaret Gowing iTHES, November 26)... It the o heneficial side striain could afford greater liberalism of the greater liberalism of the greater liberalism of the greater liberalism of the greater money that the Chinese are mode to promote the good of the British regarded technical are developing with adjucation as irrelevant to the fact that British reducation in the Saxual Town which showed how the Changarish low to do it right and their doing it."

There are alresdy stress and could offer to adjudned the chalgements and the school and

After three years rassarch in Eurone, during which its members had in pay their own expenses, the commission recommended that higher grade schools be established in prepare pupils for entry into technical colleges on the model of the classes preparatoires provided for intending entrants to the grandes écoles.

Apart from some responsa from the northern school boards, nothing

sols.

The most prinninent of the critics of Britolu's lack of higher education for anytheory and Industriulists was A. I. Mundellu, Lalcester hoslery manufecturer and Liherol MP. After a business 1 by to France and Germany in 1882 ho told a colleague:

We are rotting in ignorance as far as the industrial training of our people is concerned.

As Vice-President of the Council from 1880 to 1885, Mundella was nide to go a small way towards establishing in Britoln the system

to 1927 a National Association for the Promotion of Technical Educa-tion was founded with Lyan Play-fair, Sannelson and Mundella uning its Vier-Presidents. In 1889 it secured levislation empowering local authorities to levy a penny rate to support technical colleges, lun even with the 750,000 "whisky mindful?" of 1990 links was shown cindfall" of 1790, little was done to roustruct a national system along the little of the grandes ecoles us the association Imped.

Although 11 new universities with a technical his: were opened between 1871 and (900, Britain arrived in the twenteth contary for less well ranipped in terms of technical skills than its major Continental competitors, Germany had stalent betwing a consentation.

didates for only 81 places.

The education of eaginsars it France is far broader than it is in England. An ingenieur diplome will have studied menogement techniques, industrial relations and psychology as well as having a sound theoretical acientific background and a specialised technical training.

Perhops most important of all, he and a specialised technical training. Perhops most important of oil, ho will heve experienced throughout his aducation what the French call depaysement, involving actual work experience in mines and factories, discussion with shopfloor workers and management nod study of real life probloms. This may explain why thu senior management of most French firms is staffed principally by engineers.

by engineers.

There would certainly be plenty of anaterial to fuol the great education debate in a present day Matthow Arnold's report.

Why David Storey has got it

A technical lesson from France in the present momentary and the continuous of the present momentary solution of the present momentary solution in the continuous solution in the present product in which the idea still like re.

The rough have a distinctly produce of the present production in the continuous solution in the continuous solution in the present production. They were, in the present production of the present in the continuous solution in the continuous solution in the problems of an expectable of the present production in the continuous solution in the co award off Grental Left-swill probably so at find itself being dissected and the seminar tables of those same English literature departments. "Particularly "he says with pride, "since I failed English literature A level with the lowest mark (17 percent) in the country." cent) in the country".

liath as playeright and anvelist, Storey is highly successful. Savillo is his sixth published unvel (there are at least another half dazed unpublished) and about half of his 20t plays have been performed. The list of which has been performed. 2ft plays have been performed. The list of prizes he has already received is languagestive; for the navels alone, these include The United States Fiction Award for This Sporting Life (1960), the John Llewelyn Rhys Monorial Prize and the Somerset Mangham Award for Flight into Camden (1960) and the Faher Memorial Prize to Passage (1972).

in between 1971 and (900, Iricial mirror in the twenteries century for the content of the conten

Physique et Chinio over 2,000 candidates for only 81 places.

The education of eaginsers lit Franco is far broader than it is in England. An ingenieur diplone will have studied menogeneant technical indicates and menogeneant technical indicates a studied menogeneant indicates a stu

leem it."

Among playwrights, Tom Stoppard—" the John Fowles at the intellectual world "—fells into this catagory, David Storey suggests "All whizzkid undergreduate klini af writing; but there's a lingo audience for it."

Start blayerid is an expense of

Storey himself is an exponent of the "not immuned, folt" kind of writing. Novols and playa in-volve him to different techniques. The plays he writes straight off, in theme. Writing, he has said, to some theme. Writing, he has said, to some theme. Writing, he has said, to some extent bridges the gap, but it is not a deliberate exercise. "It soems to be an elument in my writing," he says olmost curlously, "but from not conscious of it."

Writing to have a complete, and the mean of the says of



--usually three, and sometimes two, it's on incrmitten accounting. Writ-ing long lengths of prase is more a daily gaind." But, he adds, he en-

is grandes ecoles covering every branch of engineering and speciolizing in commercial and management studies, who probably still have most to teach us in the field of technical education. The Schools Council in the Select Committee on Scionec and Technology might be well advised to ssaid on modern Matthew Arnold across the Channels Certainly his report would cover many of the arous that are currently causing most concernt over hero.

The rasults of Frunce's historic commitment to technical education and the benafits of the grande école eyestem are closily avident.

Competition for entry into the grande école of Physique et Chilinio over 2,000 candidates for 300 places and the Ecole de Physique et Chilinio over 2,000 candidates at didates for only 81 places.

The convertient of the grande expectation of the converged hy English illerature departments at didates for only 81 places.

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The converged hy English literature departments at the converged hy English literature department of the converge

Introducing theories to his own writing has not worked. "I have

writing has not worked, "I have apent one or two years on one play, trying to make it belter, and latar ducing high intellectual statements about society. But it's all rubbish, it is just me talking, not the chorecters."

Nevertheless, bringing togather the two worlds, the mining backgroond where he played rough sport, and the middle class Belsize Park writer's existence, is a constout theme. Writing, he has said, to some

A hard day in the life of a Cranfield management student

Gerry Fowler, MP, replies to criticisms of the DES

Problems in planning an overall education strate Mistaken identities in the

There is a new interest in the planning of educatimal development in Britain. Its awakening coincides with the end of he long period of emphoric expansion, when most deathands from tearings and cunsumers could be setisfied sounce or later.

Its focus is the planning system of the state of the most be consulted about any major change in the alignitives of justicular.

Among the most powerful rested luter.
Its focus is the planning system of

the Department of Educatian and interests in educatian are the Science, of which roport from the Organization for Economic Cooperation of Cooperation Organization for Economic Cooperation and Development in 1975, a former Minister, Lard Crowther Hunt, and e House of Commans committee in 1976, have been highly critical.

I wish to argue, not that all is

well, but that same of the crinicisms have been wrong-headen, and nihers only partially valid. There has been an excessive emphasis upon organizational change as the sharply as the Government would organizational change as the

havo filled to examples of the planalag process in operation.

The OECD exculators polated to the department's feilure to evolve a attretegy plan for the education scrvice as a whole, based upon an examination of ultimate gouls nad objectives rather than the means of implementing intermediate alass. Nevertheless, they wisely stated at the beginning of the their report that: "In the United Klingdom... government is ronducted within a setting of understandings, restrains, and manual forebearenees than cononly in part be codified.".

Wheo applied to the DES this formulation of the British way of running government refers to more than the conventionel "partmerahip" between the department, the l.e.e.s and the teachers. It subaumes shared bollofa ebout who dees whet, and who should be conquited about or participee in what decision, as well as common ettitudes towards the purposes of educational endayour and investment. One problem for the department. cational endaavour end inveatment.
One problem for the department

in devising an overall strategy for the adhevement of reformulated ed-neational goals is already epparent. If the process takes place in accret, and is reserved to ministers, efficials and their advisers, the department cannot have traspase. Here, pair they cannot but trespass upon territory shared in the conventional wisdom with others, presenting them finally

with e falt accompti.

Such planning must therefore be conducted in the open. But it is scarcely practicable to conduct an open debate ebout the purposes and structure of the whole education service simultaneously, let alone the ellocation of resources between sogments of it, excapt perhaps es part of the very lengthy process of preparing a new basic Education Act. Central guidance

To those a composition at the composition of the composition of common temperature of the composition of the

Among the most powerful resied

organizational cliange as the remedy to perceived weaknessos in policy planning. Too often critics have falled to examine in double examples of the planning process in operation.

Granted that some copital expenditure is easontiel, there is not much laft over in conditions of resource constraint for new ectivities compostraint for new ectivities compostraint for new ectivities compostraint for new ectivities compostraint for new ectivities of antering teacher education is 1978 do not emerge until 1981 or 1982, and must then, on the NUT thesis, be employed with virtual security of tenure, the adoption of all is policies sharply narrows policy

Central guidance

It is herd to comprehend the recommendation of the House of Commona Expenditure Committee, that there should be a regular enqual review of objectives and of policies for education, other then that which inevitably takes place within the context of each year's public expenditure survoy.

For that recommendation has to be set alongside the principle which infusoa so much of the samo report—thet policy planning should be open ond consullotive rather than bureaucretic end secretive in atyle.

Tentral guidance

terests edvancing e contrary policy, and geoulno difficulties in prospect for the higher education aystom as a whole.

It is clear from this example that pelley for the schools impacts upon policy for the schools impacts upon private.

Second, the domographic projection and the foresources between teacher of the that much of that much of that much of that much of the domonda in private.

Second, the domographic projection and the private.

Second, the domographic projection and the opportance of the domonda in that which in the trust that a policy for the schools impacts upon private.

Second, the domographic projection and the private.

Second, the domonda that that much of that private.

Second, the domographic p

open ond consultotive rather than bureaucretic end secretive in atyle. Ministers and officials woold be so busy with the revision of policies that they would hardly have time to see to liter implementation.

Nor can consultation on auch tuning rathed the urgoncy of some leading and series and series and series and series and serve the normal consultative and negotietory procedures, which, granted the urgoncy of some leading and series and series and series and serve the normal consultative and negotietory procedures, which, granted the urgoncy of some leading and series and se



... Planning must be conducted in the open. But it is senreely practicable to conduct an open debate about the purposes and structure of the whole education service simultaneously?

projected demand for higher education has been rovised downwords no less than three times.

Some oxtro resources hove been devoted to the reorganization of devoted to the reorganization of scrondary education, but the ruts required in teacher training have been much shorper than then suggested. Whot has happened has been a model example of "disjointed incremontalism"—provided that phroae is held to cover decrease tills to the cover

that that phroae is held to cover derroanantalism too.

Let us assuant that the 1972 statemoat had been fuller, aettlag out oil the arguments for oad against siteraative policies, and relating them to clearly stated ultimate goals; end that it had been produced efter some years of romplex public debate, negutiation, and ronsultation.

public debate, negotiation, and to autration.

It would bave bean a better and more uneful ducument. But would subsequent events have been very different? There are good reasons for believing that thuy would not. for believing that thuy would not. First, the Government chonged in

of tenure, the adoption policies sharply narrowa policy choice for many years to come.

There is therefore no escape from a rapid reduction of the intoke to teacher education. But the milnon must then join forces with NATFHE in edvocating the maintenance of o teacher oducation pisnt adequate and the swiago is domand, which means the diversification rether than clearer of many colleges.

Pirst, the department ward policy entire the silkoly that, while the previous Government was still in power, the department examined for mongh to meet unforced in the swiago is domand, which means the diversification rether than clearer of many colleges. cacher oducations enough to meet unforescent swinged in domand, which means the diversification rethor than closure of many colleges.

We are book where we storted—with university and polytechnic interests edvancing e contrary policy, alifficulties in prospect to the Socretary of Sinte demondation that much of this bo done in private.

not forecests.

The dopertment la, of courac, ewore thot demmd for higher oducetion can be rigged by altering the rulea for edmission to it, or by glving odditionel flaencial support to notonilal anderts who would

have changed.
The establishment of a committee

to consider a sector of education puts policy for it into aspic. That is why the Central Advisory Connecli has not been reappointed since Pluwden reported.

It is equally an objection to the

Expenditure Committee's proposal for a stouding education commission, which could roushler neas of policy only one by one, and would nevitably either freezo each in turn ar report after policy and accedy had already changed.

The amission of 16- to 19-year-olds The amission of 16-10-19-year-olds from the 1972 strategy is more romples. It seems probable that the Secretary of State of that three did not regard the continuing education of those on the boundary of schooling and work as a major policy priority.

Elighteen months later, under another Government, a ground was

other Gavorument, a graup was established to produce a frogramme Analysis end Review (PAR) study, ultiantely called "Getting Ready for Work."

Even this PAR study was combic-ted with the Department of Employ-ment "in the lead" (us the phrase hos it). Its results—in the first in-stunce the pilot schemes of unified vocational preparation—have

etuce the pilot schemes of unifical vocational preparation — have inought the DES and the Department of Employment logither, in a juint committee; but that is a new if welcome development.

Throughout the Western world ministries of employment have, in recent years, been the favoured children of gavernment; each has flowed in their direction. Short-term economic problems, resulting in unemployment, and some dawnin unemployment, and some dawning roalization that youth unemployment moy not be about term but atructural, have made this o political mpcretive.

Education ministrics are not to blame. Political expediency is the enemy of policy plenning. We have had, then, adisjointed government in cilication and training. A coherent attestesy is so much thus more difficults to a market the coherent attestesy.

poment of the service you also induced any time, but plants and any time, but plants are any time, but plants are industrially the time when h is most difficult to halt existing artivities. Friding have a server and the property of the plants are industrially and the solution of the property of the plants are industrially and the solution of the property of the plants are industrially statement of the solution of the solution of the property of the plants are industrially statement of the solution of the

One foult la the organized causantly in the light of the department has be experience and fresh accretions, cared, in the "Hambot The estegary is not, therefore, I tegret the grouping falways mud everywhere accepted in policy with the arts mixits entirety, nor is equal weight higher colucation, whertallowed its members. Its divisions that the creation of a zero ill-drawa, its edges blurred, ning commond bing. The history of design is generally search sections of he knught as an option of the history like economists and cof art or at least camea under its and those responsible kwing. This reflects the mode of supply, makes sense, entry into the curriculian.

Supply, makes sense, antry into the curriculnar.

Why did it ant happe Howover much one night be tempthe mountains have legited to criticize this, it should be genning. It was Authorscognized that, in mony cases, the who first created a placed operatorents of art listory have resin the DES, large is appended well and have made remarks and the foreign sections of the legitude describes of further the solid the foreign and the f

and the familiar departable efforts to satisfy the demandable efforts to satisfy the demandable; organization are seen to conscious it is to have an open to a function are seen to conscious the seen that the form those is FBark in the 1960s when DipAD, "not usent whose principal seed degree but degree-equivalent", policy for the form says instituted, when art and design day to day administrate education sought respectability and according to the form of the form of the contents. illy to day administrate education sought respectability and revived demands of whisecolomic parity, a decision was explanation of the sounded that the course needed some change in the organistelloctual sufficients, as though inneaucracios, those were grounds for doubt as it is welcome, les into the intellermel components of art inspector is to consider and design.

[pulley, Hitherto the wife. Whot better, the reasoning ran in responded to the initial all its banal conformism, than to demics in the field, ploffer art students the history of ort generate projects telles for which subject they would disterests of successive in play a natural essential interest, if not manifest enthusiasm.

terests of successive set play a natural effinity and intoreat, State. If pot manifest enthusiasm.

Personnol is a new The prognosis has fellen woefully ununber of the inspectation of the renkty. Probably the uninisterial emphasis recompulsory condition of the studies dards may suggest to contributed not little to this ond, the historic role of the in eddition, the values of the one dins now ell but disserted or historian opposered distloct future should not be all and remote from studio practico, isolution, for it is but which sometions soomed to contrevider question of the set dict them.

Unopprecimive of this outcome,

wider question of the set question of the medical process of the control of the c

edorinistretors) has bett

Nearly all the books that have the word "design" in the title, like Peysner's Pioneers of Modeen Design Peysner's Pioucers of Modern Design and Banham's Theory and Design in the First Muchine Ago for all the immense value of this book, are marginal to the general history of design, and treat special or arrhitectural aspects; others, like Authony Bertram's adminisable Pomgulu special, now a valuable document, or Herbert Read's Art and Industry with its ronceptually equivocal rhetoric, ore not listory. Both Kurt Rowlond's investigative sketch of the modern movement in art, architecture and design, and Nello Ponente's Structures of the Modern IVarid survey a general history of the common cultural heri-

history of the common cultural heri-tage of the different pracedes. But without doubt one of the most sig-uificant and trail-blazing works has been Giedion's Mechanization Takes

The effect of this bank upon die Independent Group at the Institute of Contemporary Arts during the 1950s mukes that group and those close to it and influenced by it, hosts to army of the ideas about design and its history since become

current.
Reyner Bunlism and myself were James Meller of the group, and James Meller of the Middlesex Polyterhuic was close. Through Richard Humilton's presence at Newcostle these ideos spread through the North East and the solite sort of ptocess rould be traced in other quarters.

The men in the advertising agen-cles and the media were in less and no differently artists from those in the studies and the line art schools. Indeed, there was a suspirion that, combuing as they did a anch more traditional and anonymous role in soriety, they were much nearer the men who built the great cathedrels and painted the grent pictures.

The history of design is as much the history of design is as much the history of alreads that money cen buy as a history of arlefacta; end a ronsequence of such thinking is the auggestion that the history of design as a specialism within the history of art is the inverse at the

jected to fresh acrutiny, and an end

On the contrary, the history of ort is a subsection of the history of design, sibelt a very important one with a longer history of its own and of its subject. It is high time, however, that the august categories academie art bistory wero sub-

ornamant.

The estempt to project o history of dealgu lends, then, to n eritiral position towards art history and towards the assumptions, unquestioned and unquestioning, underlylarly as to the role of tasta and as to the nature of function.

They are not new, nor peculinr to consumor sorlety, bur perhaps necessary to li, and hence the problematic nature of these essumptions. Design became o necessary stage in the problemation pracess as industrial and large-scale methods. These topics from the Independent Group are not the only ones in the production pracess as industred by spread and not necessarily trial and large-scale methods the exclusive contribution of the replaced the old crafts.

Haultans design : sinued against or sinalue?

vity with Imprecise limits of scope and responsibility gradually identi-fied the use of the word "design".

This imprecision was aided by the nirchely existing semantic antiquity other and earlier uses. Moreover, the new uses differed considerably from each other and in the parts of the process to which they might

The failure of the ideological struggle of art nonceon and, after it and like it, of the Vkhatenes and the Banthaus can be attributed in part to e fallure to indepart and the social reality that made dealgn necessary, and to discover what was the social, as distinct from financial, investment that required dealgn and thet dosign needed.

Design theory vemolned opnrifrom the devolopment of consumer society while much of the peactice was blindly immersed in it. Theory proposed the house as a machine for living in, first with the Futurist anticipation of massive communication and production of needs, and then widt the more elegant theory of Lc Corbusicr.

The inhebitant of that conurbe-tion—the occupant of that house— was transformed into a mechine for consuming and the political system into a machine for consenting. The three mechines were not developed nt the same rate and with the same degree of attainment. Indeed, the greet failure was that the mechine for living in never materialized as

Ing them, only possible at this inter-development of both manufacture and society.

The growth of technology distinguished the relations to production of hand, eye and brain. In those of the little well as noting appreclatively the "traditional" character of thic interlor decorating.

This ettitude, which contributes more than his share to the confu sions allout conservation, arises from the attempted prosecution of historically impossible alma which are the reficrtion of historically brosolvable conflicts.

The practice of design relotes to this will a proposal of utopian solutions which ore not really persoited, and which it does not really acek; and what is offered is not Utopia, but a little bit of it, an instalment, Utopia on the never never, a consumer's Utopia which is, of course, a salesment's peradise.

While embracing a critique of modernism, the history of design cannot be permitted to regrees into a dofence of stylistic historicism and mostalgic revivalism. There are other practices of design that need be investigated along with other weys the social investment in design bas been cetisfied.

There is a vest programme of such projects written for us by the historical pracess and the accomplishment of only a small part, with comperative methods, will teke us towards the central end common

Toni del Renzio

greet fallure was that the mochine The nuther is principal lecturer for living in never materialized as ell.

This fallure has always been represented as having an objective and lego of Art.

furmor touchers some with the confusion of social work training we know from the wall work training

coherent arretery is so much the more difficult to evolve, and to civic.

Another exemple of disjunction in government lies in the responsibility of the DES for school transport. These may soil transport transport. These may soil transport transport transport. These may soil transport transport transport. These may soil transport transport transport transport transport transport. These may soil transport transpor



i

of a character

The Council of Europe

spired its birth.

the socialist blac.

the Council Is the oldest of west

Young staff and cutbacks

more than most other western countries, in 1972, for example, only 14 per cent of Canadian university teachers were ulder than 50, compared with 32 per cent in America. Last year the overwhelming majority of Canadian teachers—81 per cent—were between 30 and 54. Mars than 30 are cent were summer.

In the university sector", he says. This is illimathing from the public policy ylewholm, as ever 50 percent of doctoral education is subsi-

dized by the government.

In the 1990s these trends will produce other dilemnas. Retirement of a large number of teachers will

herald jobs crisis

As the reaching long grows other, investiglian matrixity in a loading more and more and more and more and more and more pointed to sentice tanks. During a readenic links, they say: "There the expansionary period the proportion of full and associate professors one of Canadian university teachers gets other, their salaries will consume an ever-increasing share of antiversity bradens; academic mobility is whitnally at a standatill ond research creaticity of being impalred. Demographic trends can only make things wors.

These ingreelleds for a crisis are

These ingredients for a crisis are could soon necount for well over about the board in the United States and in other countries. But in pre-student will ingress a meanth became a poculiarly notent ingly. and in the bound in the United States and In other commences. But in the former commences, that in the analysis in the properties in the former commences and in the analysis in the analysis and properties in the analysis and properties in the analysis and the commences in the analysis in the analysis

milite finance branch at Statistics and the Consideration of the statistic paper he politis out that the celative youth of Canada's Paper half time universities, and that the celative youth of Canada's Paper half time universities are appointed diversity paper half time universities are appointed diversity paper half time traching positions. But since the early 71s, Canadian universities in full interesting competition for agreement positions will become available, "Perhaps a whole general reaching positions. But since the early 71s, Canadian universities in full interesting the wildering diversity pampeted their graduate the early 71s, Canadian universities in full interesting the wildering diversity pampeted the two countries the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time traching the early 71s, Canadian universities to full time traching positions. But since the early 71s, Canadian universities to full time

As a consequence of rouid univer-ing growth in the 1960s, Canada

An obvious rosult is that the number of vorant positions caused by deoth, refrequent add mobility in the tonsing decado sill be very low. In the next fivo years less than 4 per cent of full-ling teachers will rearb the nurmal retirement age of 65, leaving only 1,342 full-ling openings. Mortality, will old about 750 that a question of the strained canadian lebour market. In addition, universities are not likely to grue nurb more in size. Few stew permanent positions will become of the strained Canadian lebour market. In addition, universities are not likely to grue nurb more in size. Few stew permanent positions will be created. The median ago of trachers will rise by an entinated 0.8 year one wolly. This, he sows, may well have a close for which there is limited demand could be retrained.

Iranian connexion seen as

15,024 and 20,000 frantians studying in American calloges and universities—more than from any other country. Some 58 American universities have set up some kind of formal link with femian universities have a constant and other links. ties or education amborbles. American involvement in Iran's American involvement in traits system of higher clucation is almost as ruse as American military involvement; and a new report suggests it is just as controversical.

The report, by the American transcit on Education, is based on a survey of noiversities here and a survey of noiversities here and a sicility to be a result.

andversity administrators to just the best face on the capabilities of their

translation, development and trons-fer of edirentismal technology and the design and tonstruction of educational institutions in Iran.

educational institutions la Iran.
The agreement rings from university runtratts, departmental memoranda of understanding and lanividual teacher exchanges to contract between American universities and frankan government ministries, including those dealing with science only education measure with delegation

signed agreements for non-bradomic mortivos. Their wording is often

New journal aims for 'open'



vague, there is no mention of the difficulties American teachers lind in Iran, such as the light Cest in the figure of the light and the acute shortage of limits ing, and the Iranian university heads has made in the limited in the light and the light as made in the linguistic problem made it along the light and the light a implementation difficult.

Agreements have generally usen oversuld an both sides, and despite high expectations, their productivity is low, tran's needs might be botter met, the report says, if there were fewer agreements and a smaller number of American miversities was approximated to wark in that were enrunraged to work in fran or up to 20 years.
Often both sides suffer from an

and seem to think that the American gryerminent will directly finance academic comperation with Iran in the 1970s; whereas the recent financial problems of American universities to think, It culls, too, for the devalopment full by that they would make a lot of a near required agreement their requirements.

and Middle Essiem studies in American or an office of the American university consortium, discipling or an office of the Fronton Ministry of Education.

This last point is seen as parity in the tentroversial nature of the Shah's regime. It admits there are political implications to are demicrous institutions tend to be possible. Future cooperation rould be affected by with a cooperation rould be affected by with the Daited and the Color of the

cation, energy, rodlo and televisian, police and the millivry.

But, soys the report, these links affected by "when seems to be the relative themselves have not been causalled, and tou altern administrators have with a system of higher education which he perceived as serving of the categories. which is perceived as surving o

It discourages American under-graduates from studying in han

Agreements have generally been anything but 0 superficial view of according to both sides, and despite student life. American student shortage of unitergraduate places lot Franken students.
Exchanges should be at the grade

are level. Similarly, American te-chers should not be used for undergradante teaching in less, except to teach linglish as a foreign "aid-receiving mentality". Many language.
The report also recommends the settling up of my information ries.

American universities to think, falsely, that they would make a lot of monoy and of frau.

I rati's recent shortoge of cash has dampened ony hope of the country poying for Iraniau study centres and Middle Eastern stadies in Americae universities.

Most major privote universities, includin Horvard, Yale, Princeton, Johns Hopkins, Masserhuseals fastitute of Terhnolugy and the University of Pennsylvania, have links with Irnu.

scheme

the fields of education, youth and sport, which are all lamped to-gether under the aegis of the Coun-cil for Cultural Cooperation (CCC),

tast week moved into a new £25m home. But will it turn out to be a white tike most of the other sertors, the Council's education work is time by means of specialist permanelephant? Paul Moorman ent committees drawing up their own work schedules within laidreports from Strasbourg.

Nineteen nations in search

reports from Strasbourg.

Less Friday, and a system of civic gome and spleadour, France's President Giscord d'Estaing, Mr.

President Giscord d'Estaing, Mr.

President for the new President of the "parent" hady—the CCC in the rase of education. Roy Jenkins, the new President of Roy Jenkins, the new President of the EEC Commission, stores of distinguished Euro-personolities and esquerir noethod of protinguished Euro-personolities and esquerir noethod of protinguished Euro-personolities and esquerir noethod of prothe EEC Commission, scores of dis-

the Foreign Ministers of the 19 ters wants tillying up. It orgaes, convioringly, that the system too often fails to provide value for member nations of the Council of Europe descended on Strasbourg. namey. Many serretariat staff alters this view. As one put it: "The committees don't have programmas, just collections of habby herses to The occasion was the inauguration of the now £25m headquarters which is to supersedo the "temporary" prefabilike buildings which have housed the organization's 750 Three permanent committees are bureaucrais since its creation in at present attached to the CCC : one

dealing with compulsory schooling, one with out-of-school areas like Alter the rhetoric had ended end edult learning and permanent educothe dignitarios departed, the Countil get back to the bealness thos has been increasingly occupying it This week the CCC has been in session declifing the fets of thesa in necest years—its search for a meaningful role in a Europe light years removed from the immediate post-war philosophiles which in-

conmittees as port of the overall retionalization exercise. Mode up of senior officials of the Foreign and Education Ministrics of member stores, the CCC's reconuncide-tions are to go before the Commit-ice of Ministers fur rotification in Sinusted in Strosbourg to symbolize the reconciliation between "democratic" Germany and Francs, the summer. On the agendo has been e pro-Europe's Inter-governmental organi-

Farope's inter-governmental organisations. Its aims are "to work lor geoter European unity, to improve the conditions of life and develop human values in Europe, and to uphold the principles of particularly democracy, the rule of law and human rights"—so programme the programme of the agendo has been e proposal that the three committees should be wound up and that in future a strengthened CCC secretion to uphold the principles of particularly set up to corry them out. The present full-time stoff of the committees, which and human rights"—a programme meet ouce or twice a year, would long branded as "proyecative" by Although such o system would

ir is out only the official espausal of delenio by the govern- mean o different set of responsibilities end work-lood for many of the ments of the west to the wake of lklainki which has led to a progres. sleft, with consequent disruption rive playing down of the Coencil's of loog-ssloblished departmental ilguilicanco in Ecrepean affairs. hiererchios, it has been virtuelly accepted by the sections running With retrenchment taking place in all member states, tough rs.

spiralises of which international organizations should continue to system spawasil a host of sub-process a state of the dwindling financial cake have bed to be rarried on could mean a lack of everell planning and direction,

The Committee for Higher Educa-tion and Research, however, bas been lobbying intensely to be trea-ted as a special case. One member went so fer as to any that if it were abolished "it would effectively mean the cud of the Council's higher education usefulness",

And it is precisely in the ores of higher education that, it is geoerally agreed, the Council can still baya are extremaly usoful role to play.

All the signs are that the most powerful contricts have decided to a vittim not villedn in the rational cells to the Common of the Rica within the sext decade, the mejority of Couocil of Europe rounicles would theo elso belong to the REC.

Addid: at extremaly usoful role to play.

It is firmly folt that the CHER is a vittim not villedn in the rational cellen drive, and that little thought lines been given at political level to the consequences of winding it up.

The work it does has a reputation for being thorough end relevent, though the period of gestation before its findings are produced is often protrocted. Its current in the control of th

Mummies' Tomb by visitors rating its vast, seamingly impregation exterior) contains a debating the Council of Europe's Perliament of Europe's Perliament of Europe's Perliament of Council of Europe's Perliament of the Council of Europe's Perliament of the Council of Prebably the Council's best-buman rights. It was this sector, lideutial dessian prepared the conflictions and staff.

The working party on diversification ago as 1974. Britain was some one of seven countries whose impoved as were discussed. As a result of pressere from Maditerrentement of pressere from Maditerrentement of south Europe is now being prepared.

Lest year the North Eost London Polytechnic mublished.

Lest year the North Eost London Polytechnic published reports from 12 hismber states on tertiary trands. And by the ond of this year a second general report, following that of 1974, is due to appear.

tieral heritage feature among its Chonges in five disciplines—archi-other main spheres of ortivity. Changes in five disciplines—architecture, engineering, social work, biology and environmental pmblens—have been investigmed. John Toylor from Trent Polyterline chaired the orthitects' working group, David Brancher from Aston that on the coglineers, and Brian Company from the Nature Company. Much work has been done, too, in O'Connor from the Nature Cunservancy Council that on the environ-

> These groups have now reported and-like so many other Council of Enrope working parties—are very reluctant to dishand. They are now casting around for sources of nongavernmental aid such as the newly created European Cultural Founda-

It is perhaps in the field of equivalence of diplomas, an oreo, of course, which the EEC, with Its freethim of mavement obligations under the Treety of Rume, is much concerned with, that the CHER has done some of its most useful work.

A network of information centres has been set up in 13 member atates on what is and is not recognized. In Britain the work is looked after of the British Cauncil. As well as providing "official" information, some rountries give confidential, off-the-record advice to prospective proposessive on the value of more omployers on the value of more obscure qualifications.

Britain, for example, con help with queries about many Third World diplomos. So can France, West Germany, particularly in the serly days of the Council of Europs, also did invelnable work in documenting the worth of qualifications of those who bod poured over from eastern Europe or had left for other countries during the Hitler period. But it is not so much the natura

of the work as the composition of the CliER itself which has led to the chorus of acedemic onalety in mast momber slotes et the possibility of its denise. Each delegation is composed of an otodemic and a government official, plus a non-voting member.

of the committee's attractiveness to lts participants. It is an opportunity for officials to heer of first hand around a table of the concerns of the cumpenes; equally, the scademics are given close-ups of government thinking. It is, runs the argument, a spleudid chance for mutual influence.

influence.

The CHER, too, deals with the affeirs of 22 countries (Finland, the Holy Sec end Spain, while not full Council of Enrope members, belong to it) as against tha tightly knit Nine of the EEC. The interests of virtuolly every west Europeon country—inrluding thosa of the south who ofton complem of being herd done by in other forums—are cateful for.

(and all sides are agreed that it is unlikely it will countine in its current form) the result could be a CCC "takeover".

With the CCC simply setting up and hoc preject groups there is concern their their would be e leck of continuity. An occeptable compression who ofton complem of being herd done by in other forums—are cell for e bighar education sub-committee (that is a rayeamed CHER) re-

odneolion niche.

He asys thot Unesco is now dominated by the offelts of its non-western membership. It is becoming a development ngency for education end culture end as such hardly clushes at all with the council'e wark. As Mr Borch-Jocobson pointed out, Britoin has now transferred responsibility for Uncaeo from the DRS to Oversons Devolor-allowed in ment.



is highly prized. Indeed, thu sacra-tory to the British dalegetion is Mr Dr Geoffrey Templeman, vice-

chancellor of Kent University and leader of the delegation (the other two members are Mr Ralph Toomey of the DES and Dr George Brosen, director of North East London Polytechnic), is optimistic that the lobbying of the pest months will have even at least a stay of execution for the CHER this week. But he makes no secret of the

foct that its working methode need reforming. He says that instead of the CHER porcelling out so many non-voting member.

It is this unique blend of government end gown whith is the secret of the committee's attractiveness to its participants. It is an opposite the secret of the committee's attractiveness to its participants.

He sees the necessity for a stronger CHER secretariat to provide a more informed framework for discussion. At the seme time there is the general foar that whatever changes are proposed to the functioning of the CHER this week (and all sides are agreed that it is unlikely it will continue in its current form) the result could be a CCC "takeover".

herd done hy in other forums—are catered for.

Britain's ecedemic policy-making community, for one, would be very sorry to see the CHER disbanded. The view of the Vice-Chancellors' Committee is thet the CHER cenploy a significant "forum function", While the melo CVCP Eurocommitment mey lie with the Eurocommitment mey lie with the Eurocommitment mey lie with the Eurocommitment for the Eurocommitment mey lie with the Eurocommitment for the Eurocommitment mey lie with the Eurocommitment for the Eurocomm

The heggling ell seams to go bock to the fect that the Council of has a reodily identifiable higher odneolion niche.

opportunity to meet civil activanta mombers, the OECD, too, has a from many countries around a table strong Atlantic connexion which colours its work. Although it is ocknowledged to have o mussive and Drummond Laslie, who is responsible for international relations of the CVCP.

Dr. Geoffrey Templement vices be unlied.

Tha Council of Europe sees itself less concarned with drewing up theoretical blueprints and indulging os a clearing house for research which makes recommendations and gives advica (although this last role mny be making a virtuo out of necessity os member governments have never shown the slightest inrlination to let the Council tamper with their education systems). Without doubt, the main danger

to the crodibility of the Council comes from the EEC. Officials in Strasbourg are the first to odnit that there is a current gravitation towards Brussols by those countries who belong to both organizations. Any enlargement of the Market would come from emong the Council's membership. And in mony fields—education among them—the EEO could easily come to arrange-

With soma justification, the Council feels herd done by. Officiels in most ecctors complain that govern-ments revoly take much notice of their odvice, on occasion hardly sering ovon to acknowledge it

They complain, too, that most member states have little idea of what they want tha Council to do with the money which is allocated and thet the only time they take an interest is when they want to cut back. Then they say that the

Ministors, it is said, go from the Council to the Community wearing different hats and arguing for different things. In the elecumstances, said one Council bureaucrat, duplication is fuevitable; cnordination impossible. The eigns are of a continuiog

squeezo on the Council from the Big Brother in Brussels. The EEC, for exemple, has observer etatus on the CCC, but the seme privilege has Jacobsen, the Deno who runs the ducetion and culture division, believes, however that the Council Brussels. "Thoy didn't went to be has a reedily identifiable higher bothered with the problems of our

Nor can it heve been very com-forting for the Council to hear President Giscard enend much of his Friday speech exterting the Council Market to work belief tu-

Whether the Council will, he rum the DES to Oversens Developnent.

Nor does he fool there is much on the collective political will depend
fon overlan with the Oversland on the collective political will of its of on overlap with the Organization of on overlap with the Organization for Economic Cooperation and Development and its Centre for Education OECD, he rightly says, concentrates in its education octivities out economic manning aspects.

on the collective political will of the property of the property



De Joseph Duffey, general secretary the association since August work of the Admired Association of University Professors, has resigned. He has been on leave of Market from the August work of the Admired American Market fine free recently fine from the recently fine recently fine from the recently fine recently fine recently fine from the recent of t

discussion of Marxism Americo's first major erudemic One of the first runtrikutors will be Marxist journal will be launched Cleanth Brooks, who is not a loter this year. Hander the direction Marxist.

Or Marchard hopes for a rirculation of well-known Morxist.

loter this yeor. Under the direction of a minuter of well-known Morkist solution, it will onempt to drow togather Murkist writing at present diffused among a number of num-Murkist journuls. The editors hope it will croate for the first tion in Amorica o Morkis school with Amorica o Morkis school with significant incellectual impact.

Posspectives, was afficially lamached at a recent conference in Washing than of American historions. Articles the properties will cover any disciplines with the corresponding school school courses and though the concentrate particularly on subject to university fournul. They do not expect to break even for ubunt three years.

It will croate for the direction the normal course which will received a small grant from the Rahmuwltz Funndation. They do not expect to break even for ubunt three years.

It would state still hul a long way the still the cover any disciplines with cover any disciplines with the course of in west that year a foretaste of university life in an experimental eight week summar course which will combine a general orientation of mounts. Although the course, railed the Summer Threshold Programme, will be uncounted 4,500, in embitious light on the received a small grant from the Rahmuwltz Funndation. They do not expect to break even for ubunt three years.

Although the course, railed the Summer Threshold Programme, will be around 200 pages and leaves a foretast of university life in a confer 500 new size that year a foretast of university life in a confer sol university life in an expect to sum a quarterly journal.

The output of a mumber of number of number of number will be around 200 pages and leaves a foretast of university life in a confer sol univ

enetic research conference

An Mational Academy of Sciences

To hold a three-day forms in

Westington inter monitor decrease with the forms business of the form is boing found; so one of the found is the form is boing found; so one of the found is the form is boing found; so one of the found is the form is boing found; so one of the found is the form is boing found; so one of the found is the form is boing found; so one of the found is the form is the form is boing found; so one of the found is the form is the

'Bridge' at Berkeley

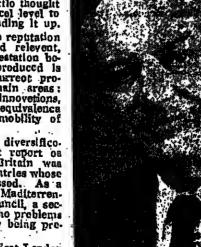
Classes will be smoll, ond for each group of ebour 15 students there will be an accodenic and a student odviser. They will work individually with each new student to develot o four-year course and study plan. No

Midisters, the Cococil's top body which is made up of the Foreign Midisters of all tha member counties, decided on a farreaching megrange of megramme of streamlioing and rainalisation of activities. For 1976 the budget was 123 million French francs; for this coming year, despite infletion, it is only 150 million fronts; and when the trimming is completed it is superiod to drop dramotically. All the signs are that the most

Added point is given to the gremme covers four main areas: scheephrenic position the Council might flud figalf to by the fact their through the modern home (elrsedy dissons and the mobility of students. Tomb by visitors facing its position to the gremme covers four main areas: gremme covers four main areas: curriculum reforms and ilmovemons, of diplomas and the mobility of students and staff.

The working party on diversifico-

lor example, that prepered the conlor example, that prepered the conlidental dessler on the ill-treatdestler on the ill-treatthere is a leaked last month.
legal ecoperation, public health,
the environment, social wolfare and
the conservation of Europe's culconservation of Burepe's cul-



De Templeman: heeds the British delegation to the Connecil'e Com-mittee for Higher Education and

HIGHER EDUCATION SUPPLIMENT New Printing House Square, London WCIX 8EZ, Telephone 01-837 1234

Reading Whitehall's entrails

expenditure is an even more anaque in 1978-79. In perremages these document thun usual. It is only 22 pages long including appendices first and 1.7 per cent in the second. and only covers two years, 1977-78 and 1978-79, instead of the norms and 1978-79, instead of the normal will receive 4 per cent less from five. As expenditure for next year the University Grants Committee is already settled. In outline if not in detail, this White Paper provides an even more fleeting glimpse of future Government spending plans.

integrated on a masterity problem in the 2.8 per cent decline and the surprising at stime when noticions are obsessed with macro-conomic fetishes that the uctual programme details have been relegated to a secondary White Puper system to a secondary White Puper include figures for 1979-80 and 1980-81 "even more provisional than usual". But both develop-1980-81 "even more provisional than usual". But both developments will have higher education which relied on these annual White Papers for some brood indication of future public support.

However, the head of the Government are for higher education.

Tho period of transition from a selectiva to a comprahensiva system of secondary schooling is nearly over. The crozy patchwork of grammar and secondary moderns coexisting uneasily alongside comprehensives will soun he rolled out into uniformly. A selective secondary system slotted its grommur school pupils easily and nontrally into higher education, a comprehensive system rooted in an egalitation philosophy is not designed to do this, and higher education, especially the universities, is bound to feel the change.

It is against this buckground that

Lord Annan's remorks about falling

standords in English language and

mothemotics among today's under-graduates, should be set. There is

grsduates, should be set. There is as yet no hard evidence that manhemistical ottainiment and writing ability is lower than it was in the past. The number of neoplo passing A levels is still going up. However, this does not mean that Lord Aman is wrong. An increasing number of academics are expressing their concorn privately allow the muddled thinking and simply writing they have to mark in undargraduate exam essays.

to feel the change.

Lord Annan in context

The period of transition from a Unlike the grounder schools

Universities ulready know they is to suffer by two and as a result It hardly comes us a surprise that may be spared in 1978-79, or much It hardly comes us a surprise that the five-year cycle of public expenditure devised by Plauden has been no more able to survive the sessuits of inflation and austerity than the university quinquentium. Nor is the 2.8 per cent decline and the first political masters for the 2.8 per cent decline and the first political masters for the 2.8 per cent decline and the first political masters for the first political m

There is the proof illustration of the coveriment are for higher education alon about what higher education three or four years must be extracted from the White Paper. This shows that total public expenditure on education will foll in real terms from £7,519m in the present year.

LETTERS TO THE EDITOR

Politicians and discontinu

Sir,—A remarkable aspect of the current debate in education, initiated but how profile attempt to increase its near power over the chirchloral system, without regard comining has been said an accordance of the chirchloral system, without regard to the educational custs. The Schools about the responsibility of the De-partment of Education and Science, and of politicions, for the present serious discontents with the educarional system.

It is viral that the mandarius and politicisus be subjected to the close scrutiny that they would like reserved for urbers. They should be and bureaucrats, Like their masters they are highly paid, concerned with the manipulation of power, and their riews are uninformed by any direct incoherence in the difficulties of reclose to subgrain agonde.

quences of such sudden changes to direction for the quality of teacher education, for the morate of those who teach the teachers and, in the end, for children in schools?

The Department's inspectorate ulso requires public investigation. It has played a crucial rule in offeoipring to promulgate to fea-chors ill-thought-out educathmal heories and idealogies. It would be bronic if the inspectments were to questions need to be asked, and he given the mak of monthoring a maswers demanded, about the educahe given the msk of monitoring a common carriculum when they have done so much 10 undermine such n curriculum, especially in primary

During recent years the Depart- University of Liverpool.

Cunnell has been devalued; colleges of art and education, technical col-leges and schools, have been turned into educational factories.

A muniter of as who kee To roo these factories the civil world have tried, with E

ties of trying to educate people. The educational consequences of such monolithic organizations, and of the new class which runs them, have brought more then en-

What, finally, have been the cali-cational costs (burne largely by children and classroom teachers) of children and classroom teachers) of even though in some page iorical links are far less Autillean research program an active publishing rets mented, reversed, amended and rejected by beal and national cabals, without regard to the intended and maintended consequences for those directly involved. in Bermany research ishis coordinated from the Vis

Bielefeld. There are 8 66 number of Dutch scholass on Surhtam and the Ducht If, when the great debate is over, the pawer of those responsible for the present discontents is increased. the Huiversity of Leidenb active Caribbean Departs affiliated Royal Instituted then the future will be theirs in which to creats over greater haves. tics and Anthropology. If the debate is to be more than a public relations exercise then research programmes on M and thradeloupe are 100 h and Burdeaux, lo sil ice are taught on the area. tional decision makers themselves.

ANTHONY HARTNETT, Lecturer in the Sociology of

Scottish UGC

comprehensives are not trying to pick out the brightest, those destined for higher education, to give them the stimulotion and encouragement they need. Their aim is to raise the minimum of the uverage, and uverage and helaw average, and Sir.—Mr Ruca's point CYHES, Johnney 21) I take to be that an edunew, more general, perhaps more interesting, certoinly less examination-hound courses reflect this. More important than this, however, is the change in the school other sphere. Whereas in the grammur schools the ethas of bananistic culturs and learning fur its own sake prevulled and standords were set by the toachers, in the commence. rarional system can, after all, he a

by the toachers, in the comprehen pect of a specifically Scattlsh consives the peer group sets the norms, so pop ninsic prevails over litera-iure, and fushions over physics. The pupils who in the pust would have tuken the 11-plus ond possed text for university uffulrs is not in liself the thing which causes allsquiet. Some of the arguments put forward in its favour are o different into on environment—whatever its narrow, examination determine

The number of neoplo passing A levels is not peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels in peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels in peoplo passing A levels in peoplo passing A levels is not peoplo passing A levels in peoplo passing A levels is not lan its addiction of misundents and in policial in those who look to full political in dispendence os an autrenue talk ns for lies of misundents and in the new later ment of misundents and in the new later ment of political in those who look to full political in those who look to full political in those who look to full political in the lecture "A penul of the four-cubing mening not to be questioned nra unlikely to find much a support and provided to resist the personal political mention of a matternue talk ns for lies who look to full political in the lecture "A penul of the four-cubing mening not to be questioned nra unlikely to find much a support and provided to resist the personal political mention of a matter in the feeling has the feeling by the personal political mention of a matternue talk ns for lies with full mention to the full political in the feeling has the feeling by the form and provided to resist the priority and the feeling has the feeling by the feeling by the personal political menti

grave anough; the added harden of hoving to establish their "nutional" credentials would tinish

That is why hesitation about coming within the Sciotish system can not be regarded as a self-interested quirk of expatriate academics though their situation wil be very much a test case of long adequate any new scheme is. Yours falthfully,

NICHIDLAS ROHND, Department of Hispanic Studies,

Four-colour theorem

Sir, -The reason shy he movement failed in cubic as the equal of its Contiet is not that its tadials weakened, or that the tab Sir,-There seem in he a mucher

UCCA applications will cheer up many academic actenities, but for the group whose morals in greatest need of o hoost the figures are very deprassiog. Physics is the only major sclence or favor courses that sering subject whose shore engineering subject whose shore between the figures are very deprassiog. Physics is the only major sclence or favor courses that sering subject whose shore engineering subject whose shore between the fireness of the pressure of the fireness of the fireness of the pressure of the fireness of the fireness of the fireness of the fireness of the pressure of the fireness of the fireness of the fireness of the pressure of the fireness of t

Yours faithfully, R. C. GRIFFITHS, Secretary, Swann working of Inter-University Council for Education Overseas, Tottenham Court Rad, Loudon.

l'aribbenn us an area & is conspiruous by in & the present coverage.

For example, Harrard

junruals und documentation

buast is a fledgling to Studies Association with m

familing, und informal see;

to gross for information a

brough the education s

others come from abroad the their arrhives in the

and elsewhere.

Hampshire.

Swann report

Sir, --lest any of your reprive (THES, Jaouary 10 1) impression of the officeronmedations of Swam's unpublished less swam's unpublished less swam's unpublished less and politically universities and universities an

British universities and verseas development urge them to await is the Inter-University Commonts (as soon as bulk safe) available from the principal some have been sent to universities and polyected for the principal company to be to say of these property has to say of the property has the property has to say of the property

report has to say on these

Yours faithfully,

MALCOLM CROSS.

Lecturer in sprinlage,

University of Surur.

decords Office, British !

Meanwhile, the demands

between universities.

All that the United King

interest for a number die That this is so, I find mexpected and somewhat surprising. The Scors have a There is no centre of a strong sense of national identity and a research in the United even though Schain; column adventures to pride in their nation. Such emotions are certainly and the prerogative of paid-up members of the Scottish National Party there, and cominging noutic ond political and are judged almost universal among Sents, including those who work in

universities.

Anyone who has ever served on cammbrees within bodies such as the University Grants Committee, the Vice-Chan-cellors and Principals' Committee, the research conneils, or the like will testify that representatives from Seutland are olways very quick to define and to defend Scottish interests. Why then this besita-

doin university system administred by

the University Grants Committee. There

is clearly no general enthusiasm for the inclusion of the universities within the

responsibilities of the Fdinburgh

Paradoxically it may be this heightened awareness and genuine concern for the best interests of their institutions which ls being expressed by the Scottish univeralty community. For there is no doubt that the arguments put farward in support of changing the present arrangements have been unconvincing, and some indeed hove had positively frightening implica-

One of the causes for olarm has been the tendency for the dehate to degenerate quickly, especially in the Scottish press, into the moking of extreme statements often about "devolution" or even "seporution" and not obout "the Scottish universities and devolution". Also, it hos been frequently alleged that "the universities are opposed to devolution ".

Such statements are almost certoinly untrue. As institutions, the universities in Scotland have, quite properly, made no comment on the general proposal that some powers should be devolved to a Scattish Assembly. Some universities, however, and some groups and individuals within universities have quite properly expressed concern and apposition to proposals that the powers to be devolved should include an authority "to cuntrol the universities ".

fore against a backgrunned of the continua- and resources of the whole British popu- to an Assembly for purely

A majority of the academic and administrative staff members of the Scottish universities would probably support the accuse the Scottish universities would probably support the Government's proposals to leave the kind of treachery to Scotland simply beuniversities as part of the United King- cause some members have expressed the wish to remain within the United Kingdon system.

Two views on how devolution may affect the role of universities in Scottish higher education

Universities are not guilty of treachery

A sizeable number of bodies and institutions in Scotland including, for example, such widely differing organizations as the Labour Party and the National Union of Students have at one time or another exprossed the same wish In the public debate which preceded

the publication of the Government Bill, claims were made in some political quarters-though noticeably seldent in university circles—that it was necessary for the proposed Assembly "in have control of the universities". The arguments advanced consisted usually of ill-defined generalizations about "Scorrish education ", the need for " unification " and s vague assumption that in some way Scotish national pride required that the universities be "controlled" by the

It hardly seems necessary to noint out that for several conturies before not at least two since the Union of 1707, over which period "Scottish education" was presumolily being moulded, there was little Parliamentary control of the universities. It can also he fairly claimed that the Scottish schools and the universities over the same period developed and maintained effective relationships of mutual uderstanding without much assistance from political or hureaucratic organiza-

The history and the nature of the unlversities in Scotland are indeed relevant to this discussion. There are eight Scottich nuiversities, four of which are very old and funr which are very new. Together they pruride confficantly more university places per head of population for Scottand than is the case in the other Further, a substantial number of these

places are to be found in the professional schools, whose output exceeds greatly the requirements of Scutland slone. This whole situation is due to the fact that the Scottish universities, already providing well for higher education in nurely Scottish terms, hove played their full nort in the expansion of the British uni-



Edinburgh's Princes Street: "The universities will do their miniost to meet the needs of the nearly of Scotland."

lation. As part of the system odminisiered by the UGC, the inflyersities in Scotland have willingly respinated to the call for more places in British higher eclucition.

There have, of course, been great henefits-new institutions have been created, old ones have expauted, and figure has been provided generously. The Sourish universities have, in fact, heen subsidized in ortler that they could continue their system of four-year seek to ploy their full part in such a honours degrees (as compored with the three year courseo in England). In a less direct fashion the Scals hove olso been tinnal and academic needs of the country. subsidized, not altagether altruistically, hecause of their praduction of high quality gradumes for export.

In the dehate so far, the advocates of "chairol by the Assembly" have provided little ur no information as in how Britaio and beyond. versity system over the past two decades. This disprapartionate share of university This expansion, however, has naturally finoncial support which comes to Scot-In the absence of legislative proposals been planned, both as to size and com- linud under the present system could be for an independent Scotland, and there- position, in terms of the demands, needs maintained but of a block grant allocated

out be maintained then the moversois should at been be given some warping at the changes they might expect.

In fact the University Grants Committec system has been extremely successful and it has been admired and copied throughout the world, Government wishes and policies have been transmitted and interpreted to universities. The latter tor their part have effected major changes of many kinds, have operated very efficiently and have summounted many difficulties, all the while maintaining an effective measure of autonomy.

All these previous considerations apart, huwever, I sense, as a Scotsman brought op and educated in this country and now delighted and honoured to have returned after many years of absence, that the element which is really disturbing academics in Scotland is the bad smell of political extremism, intolerance and changinism which pervades some of the claims for "routed" by the Assembly. I do not believe that the Scottish people will ever tolerate such excesses, but it is these change threats which have caused

I believe that there is no need for this alarm, especially now that the Guvernment's legislative proposals are known, Whatever the exact detail of the eventual outrume, the universities will adapt to any reasonable structure which emerges, and they will continue to try to fulfil their proper function to the best of their ability, as they always have done.

The universities have, for some time now, been developing liaison arrangements between each other and with the other institutions of higher education in Scotland. It can be safely predicted therefore that the universities will wel-come the establishment by the Assembly of a Council for Higher Education in

I am sure that the universities will council and will do all they can to assist in the definition of the genuine educa-Once defined, the universities will certainly hend their utmost efforts to meet the needs of the people of Scotland, as well as 10 continue to make their contributions to the academic world in

Sir Hugh Robson

The author is vice-chancellor of Ediabargh

Exciting potential of a Higher Education Council

At the beginning of the present neademic land, and I hope very much that it will recognize that interaction between the secyear It looked as if the atavistic resistance to educational devolution displayed by the Scottish universities meant that little advance towards s rationalization of postsecondary education was likely.

There are now, however, signs that the Devolution Bill's suggestion of a Higher Education Council may find favour with the Scottish universities and with the academic profession. A joint universities working party has been proposed to make positive suggestions about the nature and functions of such a budy, and the Association of University Teachers (Scotland) has already held a major conference oo the same theme.

How far these moves reflect s change In political reaction by universities, how far they ore a response to the inevitable, and how far they reflect the harmlessness of the government's intentions, It is too early to say. It is not, however, too early to suggest to the universities, the colleges and the schools some concerns which an effective Higher Education Council must

The Bill ouggests that the council would have a coordinating role in the poot-secondary sector, and would include in its remit links between that sector and the schools. Quite clearly then the council must not be dominated by the universi-ties-or any other set of inotitutions for that matter.

I liope it will emerge as the first really representative educational body in Scot-

not be concerned primarily with the naditional academic hierarchy of institutions.

We need desperately at this time flexibllity of entry, of movement and of qualifications in the nost-secondary phose of education. Institutions in higher ond further, education in Scotland have the potential to offer a plurolity of educasame Individuals have fawer chpices thou Once programmed into " further ", they

cannot avail themselves of relevant offerings in "higher"; muce in a university they are unlikely to make use of the resources of local suthority colleges or central institutions. Add in the duplicotioo of courses and resources which stems from the conflicting interests of the different planning hodies, and coordingtion is well nigh mondatory. Scottish education is divided by its plan-

ning ogencles and paymasters: the universities (with the University Greats Committee and Department of Education and Science in Whitehall), local outlior itles with boards and committees in the regional capitals, and the Scottish Education Department in Edinburgh.

After devolution there will cartainly he no reduction to their number, and probably no less confusion about their responsibilities. The case for coordination in post-socondary, and between it and school sector, will he strengthened.

tors is of immense significance in the provision of a planned system of lenruling In our oociety. One of its first toske must be to faster close examination of the can-tinuity of carriculo and of teaching and learning methods from school to further and higher education.

It must oversee curriculum develonment in both sectors. If we remoniber that higher education through its research function provides the knowledge base for the curriculum of the schools, we must allow the council to monitor the flow from one to the other and to evaluate its

There exist of the effective bodies to facilitate transltiou from school to university and to oversee the mechenics of student admissions, choice of courses and institutions, and so

No such facilities exist in the rost of further and higher education, and the new council will have to make provision on a par with that enjoyed by the universities if the post-secondary sector is to operate to the advantage of its " cilents ".

These are the most obvious tacks for the new body, but it must also be the first focus for national reaction to new ideos and the new forces in education. For example, there are European pressures to move na away from sandwich courses and other forms of part-time education, post-socondary, and between it and the school sector, will be strengthened.

The Higher Education Council must, and for professional membership.

The Higher Education Council must, and for professional membership.

The author is adviser on educational methods of Strathelyde University's Centre for Education.

individualized learning and all that the lamplies for resnurces and staffing at both schnols and colleges; and suggestions for tertiary colleges—the combinotion of upper secondary and post-secondary

These are all concerns that run through the whole of education, and cannot be one planning or fiscal agency. I would submit that they need serious combine tinn of all the resources that would be avallable to a Higher Education Council. Only through such a body would both political and educational reoctions he

Finally, the Higher Education Conneil could have a profound effect on both schnol and post-school sectors in relation to how well it copeo with conflicting educational pressures; from SED and civil service interests and strategles, from professional interest groups, politicinus, the press ond from community groups.

All of these are quito valld pressures. luit diverso. In a small community like Scotland they are the more keenly felt. There will be a clear need to orchestrote and codify them.

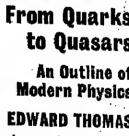
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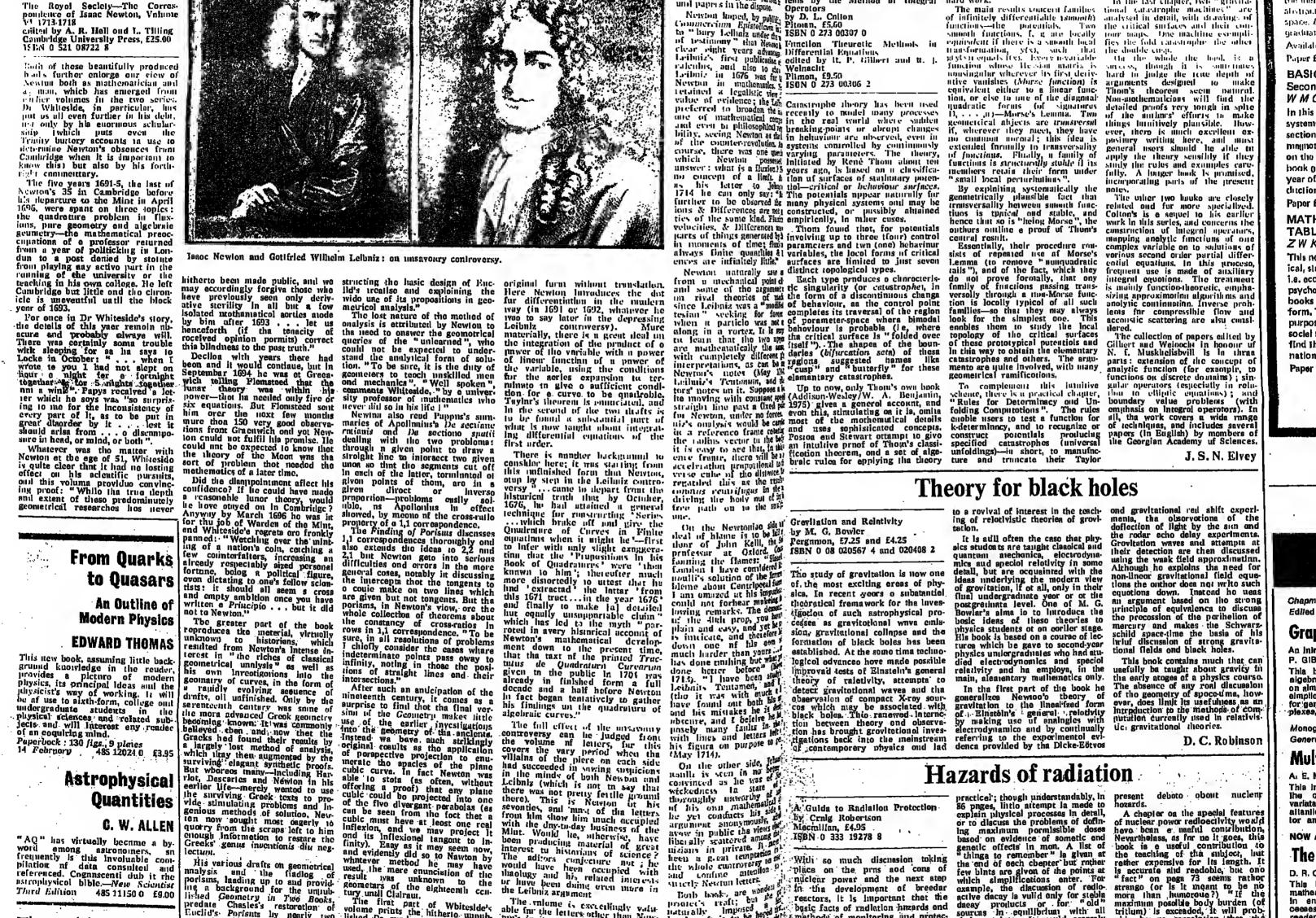


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There are plenty of undergraduate There are plenty of undergraduate textlooks on the subject of heat; like Riedi has added in their unamber hecause, he says to the leisucely treatment of thermodynamics in the standard undergraduate texts is now rather but of proportion to the time that the student is wearant to despite to the is prepared to devote to the subject".

h is a fair point and his remedy is to combine statistical mechanics Is to combine statistical mechanics and thormodynamics, to canfine his offentian to material central management of the depth of his treatment to a level adequate for homours physics students. Must of his treatment is clear and rotional, and will be appreciated not only by bright students, but also by average mes. The affects a useful set of exercises, with skotch substians.

In a few areas his treatment is not as smisfactory as it might be, for example, in the presentation of the second law of thermalynamics. There are ut least three respectable methods of doing this; they are the abstract, the Victorion, and the hopeful. In the abstract method tho performer (originally Corothéodory)

press home convincingly the identification of the integration factor with the temperature. His treatment appears at first to be a logical development from an axion about accessibility, but in fact is more nearly a direct postulation of the existence y of entropy and temperature, to be tested by its consequences. Either treatment is physically smand, but the reader deserves to know which

the camera appears in both theromoder and statistical contexts. And the book would gain if it contained more reference to actual ex-perimental methods in therard perimental methods in there of physics. For the most part, however, Dr. Riedi explains the ideas of the subject clearly with the aid of fairly simple mathematics and good diagrams. He refers to a number of modern applications of thermal physics including a short account of critical point exponents, and a disserbition of the Pomeranchuk method of cooling liquid helium. To UJBI2 K by adiabatic compression.

But the research worker in cryuphysics will need more than an undergraduate treatment of topics like Pomeranchuk confine, and for this he can turn to Refrigoration and Theemometer before One Kelvin.

the collection of information in this

There are at least three respeciable methods of dalag this; they are the abstract, the Victorion, and the hopeful. In the abstract method the performer (ariginally Cornthéodary) trips almily Iram states inaccessible to state occessible, and suddenly prodoces an entropic robbit out of an integrability har. In the Victorian method (faranced by Chaisias, Kelvia, and Flanders and Swann) the resonances of steam engines are accutally harnessed to them refrigeration. In the lumpful method it is prunounced that entropy and temporature shell exist antil experiment shull have proved otherwise.

Dr Riedi has introduced Carathembers them and the fully found in this respect is almost as wishe as the range from 1K (-272°C) on in the central lemperature of the sun.

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There are one or ten other minor must isfarmer details. For example, the author fights sky of using the present at the vision of the left of the content and which will be velopment and which will be

The Dictionary of Thus reads like o grammar shad, buok from the first helf d century. The only technique tioned for determining the capacity of solids is the men mission of solids is the men mixtures, and for determine heat capacity of gases at a colume, the Joly difference calarimeter.

Professor James hopes by dictionary will be a useful sign bank for a wide variety of site applications of thermody statistical mechanics to de Of course it could be argued that physicists, and engineers sit: it meither very useful not a

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At Khorkov in the corly 1930s
Londoo planned, e courso of theoretical physics which, with Lifshitz, he published in nina volomes over a period of some thirty years. This first volome on classical mechanics is the English translation of thomost recent Russian cedition.

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Intellectual Telent: Research unit Ilcvelopment
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Only one paper in this rolome of Only one paper in this rolome of the proceedings of the sixth Hyman Blumberg symposium on research in childhond edocation, is devoted to the subject of verbally gifted youth; the rest concern themselves with identifying, measuring and lacilitating the development of the markematically gifted. Implicit in much of the discussion is the idea that most of the foctors that can be considered to describe generol intelsidered to describe general intel-iectual talent, are most obviously

iecrual talent, are must abblaisly manifest in the area we call mathematical chility.

Provided one accepts this argument (and familiarity with the range ond type of tests used for this selection is crucial), we can see that in the terms of the contributions, such a blus towards mathematics is no neclilent. One also has to necept the American idion; the more formal approach to "math" teaching, the Stete systems which govern the sequence of courses (algebra I, II, III, goometry I, II, etc) end the grade system within which these courses ore normally taught. Even with

their mathematics junguammes. In comparing England and the Duffed States I suspect that a much lower expectation of average ultility for a given age was indicated by such numbers. On the miler hand, we have in cause in he complatent. Such talent searches do indicate that with takent the expectations of averages in the system, a large pro-putino of children are languishing or buredom because many teachers have neither the means not the ability to motivate and advance their

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Eighteenth-century Scotland wirnessed a laird-led ogricultural revo-. revolution, the rise of the tobacco ind cotton lords. ' More to Chintis's interest, it also saw the building of the Now Town in an "Athenieu" Ediaburgh and the publication of The Encyclopaedia Britannico. Statistical Account. Smith's Wealth of Nations, Hume's Philosophical Essays, Burns's puems and (from 1802) the second Edinburgh Review.

Rus-more Scots, egill tolling un, the land or in milk and mine, a change from "possent", to "procentum" status was bardly of much inhediate concern, though many were develope of solf-help through education. But this book is the investment of the social coinse-quences of change for the lower orders. Chiroles remarkable damatis personal coins from ligher solution principally the Kirk, the Law and the universities.

Kick institutions—kirk sessions, presbytories, synods and the General Assembly (when boozy, yengrous ministers conservation the Russ Street torty)—greatly slade the localisation of enkalphove the light raise hellish appetres in sermions or enkalphove quains their annual jamborgo; but they cared for a school system which (however diverpraised on occasion) was certainly impressive. Statistical Account evidence and lights that the literacy and numeracy of childrent were botter than could be chained by many parishes today. Pellichal William Robertson, the great Moderale leader, typifod the

connuxion between Kirk end Enlightenment: for him vira she literis more erot.

A second formative influence wa

Scuts Law, long dominated by landed advocates and estate-manageing priters to the signer. A system descending from Lord State's fastitutions of 1681 and influenced able, readable and crudite account of the eighteenth-century inlightenth ment in the major Scottish burghs, fle presents a wivid panorama of North British's post-Union decades, lies is not the door Scotland of Friedre, Henry British and President Henry B lirskide, Henry Broughom, Andrew Pletcher, Francis Jeffrey and Henry l'ockburn-though is could also pro-duce a Braxfield.

This is a fuscinating book. Perhops intolling, it is heavily orientated training to misprints. But in these devolutingary days a well-vitrent survey of one of Scotismi's "guident agrees". Is of special interest.

Custodians of the classical liberal more into press, notobly C. P. Scatt and J. A. Spender.

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This is a fuscinating signs wore appear all was not well. Matthew palgus to remed in the cample of the various taxes with which newspapare were an equipment of the various taxes with which newspapare were an equipment of the various taxes with which newspapare were an equipment of the various taxes with which and all was not well. Matthew palgus to remed in the cample of the various taxes with which and all was not well. Matthew and the cample of the various taxes with which and all was not well. Matthew and the cample of the various taxes with which and the cample of the various taxes with the cample of the various taxes with which and the cample of the various taxes with the cample of the various taxes with the cample of the various taxes and the cample of the various taxes with the cample of the various taxes and the cample of the various taxes with the cample of the various taxes are captured to the cample of the various taxes are captured to the cample of the various taxes are captured to the various taxes are captured to the various taxes are captured to the

At home in Europe

dited by Carlo Cipello Fontana, Et.95 each ISBN 0 00 634261 2, 634577 8,

These lour valumes complete a manumental and, in many respects, a malque publishing venture. In other valumes altogether Ivolumes four to six have two parts each! a galaxy of internationally recognized authorities has been assembled to provide the reader with a compretogether with an apparatus of statis-tics, graphs and biblingraphics, to tell the story of the economic development of the European conthreat from the Middle Ages to 1970. The resulting work stands comparison in breath and scope with the only parallel, the Combridge Economic History of Europe. The most alivious difference is in

the presentation: are can only wonder at the publishing what that collects such a wealth of writing of conects such a wealth of writing of tasting value and then sends it our into the world in such shoddy garb, poor even by paperlack standards, then the same period, c 1920-1970, but while volume five deals with general themes, covering the whole of Furope, each chapter of volume six towers a rountry or region. The the same periods six enverthe same periods its and six enverthe same periods, c 1920-1970, but white volume five deals with general themes, covering the whole of Entope, each chapter of volume six tovers a country or region. The linewitable overlanging is held to a minimum, and is welcome rather than disturbing. Inovitably, the greater interest, for while it is not difficult to find writings an tho economic history of individual nations or regions, it is a rare scholar who will voncure juin the quicksands of introconthemala relationships and composisons. The main danger been is insularity that pretended coverage of the winden in the experience of one country with had occasional and not very penetrating glances ut the rest.

The task of the uniburs of volume six was more conventional. Univ Altred Zauherman, laving been given the unenviable lob of covering the whole of Eastern Employ, including Russia, in time whole of Eastern Employ, including Russia, in time pattern of the others, and although the chapter is un interesting contribution in its own right, its includent in its own right, its includent in this form is nor difficult to find writings an the continue. For the pattern of the others, and although the chapter is un interesting contribution in its own right, its includent in the pattern of the others, and although the chapter is un interesting contribution in its own right, its includent in the pattern of the others, and although the chapter is un interesting contribution in its own right, its includent in the pattern of the others, and although the chapter is un interesting contribution in its own right, its includent in the pattern of the others, and although the chapter is un interesting contribution in its own right, i

The Fontana Economic Illstory of Europe: volume 5, The Twentlelh "Currency, Credi and Prices" are still basically London-Washington British Treasury and when in the Contrapporary Economics, parts 1 and 2, volume 6, Social Relotions of Science and 2 "Social Relotions of Science and to plan for expansion and moderal."

" Europe" consisting largely of the West puly. Selection is invidious, but Milos Mactira (population), Walter Galenson Halmur forret and Hermonn Priche (agriculture) deserve praiso for the comprehensiveness unit used hiness of their contributions; A. S. Denton (demand), Georgia Pellicelli Deman (deurand), Georgia Pellicell tunungement) and Max Nichdson tenvirunnent) deserve commiseration with the toughness of their ussignments. The European juxtaposition is useful for explading myths, such as the notion that thinks workers are particularly prone to strike or to demand wago mereases, but its true value is much greater than that and will stimulate and enlighten for many years to and calighten for many years 10

"Suchal Relotions at Science and Technology" by Roy and Kuy Macleod has token insularity in the point of caricature: by 1939, they tell us, electrical appliances "were supplied in Europe by research-intensive firms such as GEC and Siemens in Britain, and Phillips in Holland". But, un the whole, this is a mate truly European account; "Europe "consisting largely of the "Europe" consisting largely of the in atom years. in must years.

A. J. Ynungson, in his charac-

A. J. Ymangson, in his characteristically elegant chapter in Great Ilriuin was the most unfortunote viction of the delay in publication sluce the early 1970s (Georges Bloudel, on "The Sources of Energy", missing out on North Sea oil, was another). His paper appears absurdly optimistic in the light of Inter events, reflecting most fullfully the inability up British economists in see the signs of failure in their economy until ubout failure in their economy ontil about 10 to 15 years after they have become clear to everyune else.

The averwheloting impression of these volumes is the remarkable

these volumes is the remarkable convergence among all the European economies in this period. This is evident not only in the structure of Europe's trade, which is commented on by Carla Zacchia in its appropriate place, but in all developments that matter. These include population growth, primarization, the charges from ancientwise to many. pupulation growth, urbanization, the changes from againstance to monofacturing and to services, and even within ludustry, for example, the lucreasing share of metal-using ood capital goods manufacture. It includes the growing rolo of the state and of welfure provisious, the shape and influence of the trade union movement, the propensity to save, the distribution of incomes among various consumer goods, the changes in economic growth rates. changes in ecunomic growth rate, and many others. Against there opporently irresistible forces, the great efforts of politicions that ha the headilnes - manipulating ex-change rates here, obstructing treds there—con be seen as the Iraly puny efforts they are. Economic Cummunity or no. Europeans will continuo in feel increasingly et home in each othor's countries.

Sydney Pollard

From a pluralist to a popular press

save only mong a few lingoring custodisms of the classical liberal ideal of the press, notebly C. P. Scatt and J. A. Spender.

J. T. Ward pagers turned their attention to

l'iecher, Francis Jeffrey and lleury lockburs—though it could also vroudue a Braxfield.

Most vital of oil wera the université (thrungh Aberdeon and St. Anntroys get little mention liero), in divinity, philosophy, meilleino, natural history, geology, law, main cliemistry Glosgor and Edinburgh Cented a renaissance. At Glasgory John Millar, William Cullen, joson illelin, £15.00

Billock, Georgo Jardina and Francis liuchesoft, for Edinburgh Collential Cullential Collential Cullential Collential Collential Cullential Collential Cullential Collential Cullential Collential Cullential Collential Cullential Cullentia

warning signs wore eppeoring that all was not well. Matthew Arnald's urifice on the New Journalism, deplething its essentially "fouther-livalised" charactur, was a foreinste

pressing the allssemination of tele-political discussion, a tendency to write down rather than the uplift, a decline in the number of penuly dallies and on increese in the number and circulation of hollpenny papers—thesa were the cheracteristics of the New Journalism. The story le a reasonably ismille

one, but where Lee broaks naw ground is in his frome of roforence and the depth of his anelysis. He does not place his emphasis upon journalistic content, nor does he such episodes as the advent of the bootd schools after 1870. Instead h concentrates upon the economic structure of the newspoper industry ond upon the changing noture of the political system. Advances in the reclinolupy of printing required extensive copitalization, which is scon la material and class-base terme, rother then in the context of communities and their ideornonconformity, temporance, privincialism and the like. A plurellst press thus gave place to the popular

Leo's thesis is rolnforced by omporotive survey of developments in Franco and the United States and is sustained by many notes and a total of 35 appendices. His bibliogrophy is equally impressive, pari-oblarly in its coverage of articles written in nineroench-century periodicals concerning the role of the press. Errors of fact or typography are few, and do not affect the furce of his thosis, which mokes a major contribution to the dove loping study of the "fourth osmu."

Maurice Milne

The trnublo with this thesis is

temporary linguistic theory and os e detelled anelysis, in terms of deep and surfoce structure, of Port-Royal's troatment of relative pro-

An Anctomy of Drama

by Martin Esslin Meuclee Templo Smith, £3.00 ISBN 0 85117 1087

Port-Royal grammar

of an idea rather than as a significa-

is in many respects, agent from the

distoction of the linguistic sign presented by Port-Ropal, an an

sovouteenth century" Into couplin-

remains the same in linguistics ex-

cent the central concept.

But it is not simply the account of Part-Royal that is workened by

iling within e common tradition. Podley treces e double line of de-

velupment whoreby, on the one land, the Humanist rejection of the

Modistao and their return to Priscion end Donatus leads to un

emphasis on eemomic criteria and

cept of gremmotical function, and, on the orbor hand, there is a reaction egulust the lituralist concorn with usage which loads in a requesed interest in the underlying

structure, or ratio, of the language

that Part-Royal's concern to produce

an underlying semantic structure for lunguage would appear in he the ingical development that Pudley asserts. The disulvantages are not puly that the PortRoyal theories are rousidered independently of the change in definition of the sign, but also that Ramus, organity the most improved.

grammarlaus, connot be litted into choor development. With his right-

ons formalism and his luck of interest in universal grammar,

Runus must be transformed into the

Although there is much of interest to be gleaned from this hook, it suffers, as do many other such scholarly works, from a spectacular indicate with regard to the matters.

if selence. Trapped in a hand evolu tionism, theory must follow theory without any principles of unifica-

most empirical noting of correspondences. Without such principle

even the most ardious and exacting ocholorship can produce little of lusting value. It is only with

e firm grasp of the problems involved in the analysis of theories that one could properly pose, let sinne anawer, the question of Port-Royal's relation to preceding grammatical speculotion.

Redundant study

Colin MscCsbe

anachronistic precursar uf struc-

Nostalgia

THE TIMES HIGHER EDUCATION SUPPLEMENT 4.2.77

The Little Mogozines : A Study of The lattle was a construction of Gronmalical Theory in Western lion of reality is understood as an imfortuning abstration: "The line Europe 1500-1700 hy G. A. Padley hy G. A. Padley
Combridge University Press, £13.75
ISBN 0-521-21079-8
of development from medieval grammar, through Scaliger and Sanctius, Caramuel and Campanella,

Mr Hamilton's six little magazines are The Little Review, Poetry chicago, The Criterion, New Verse, Partitum Review and Morizon. This is a mixed and a solective bag; the contents, anotherized, are to justify the author't diesis that little magazine have se optimum life of about When Noem Chomsky published Cartesian Linguistics in 1966, he was attacked by many scholars an the granudo that he had fulled to the outhor's desis that listle magathe outhor's desis that listle of about
the seas, within which span a
lifecycle can be detected: "tho
opening years of juunty, exterive
opening years of juunty, exterive
the decision, then e middle period of
genuine identity, and after that a
level stage in which the identity
becomes more end more orechanioral." The smallness of the somplo,
and its arbitrory scatter over two
distinct periods and two soporous
countries, is jutified on the grounds
that these ore "the most exemiunderstand the relation of the Port-Royal refloxions on language to the countries, is juttified on the grounds that these ore "the most exemplary and memorable" little megations of the countries and it is true that it will not ceuse meny reeders to nuction Hamilton's conclusion, which is that "each megazine needs a new megazine".

These papers were dominated by the self-ters and Hemilton, in works.

which is that "each mogazino needs a new decade, and each decodu needs a new mogazino".

These papers were confineded by their editors, and Homilton, in working one at a time over the former, and the confert the ideas were their editors, and Homilton, in working one at a time over the former, does not expect the idiosynerasies of the latter. The treatment is, for my taste, o little too knowing, too cay in its mannor with the Sundaynewspaper adverbs "prodictably", "son surprisingly" and the like, suitable on frequent. Saurees are stready familiar with, say, the story of Margaret Anderson and her relatent endorsament of the Modern, will tend this account largely to aspert the pleasures offered by limited in the greatly, especially when Pound burts in ond scutters the lady poets, all "ero" and "yonder" and "twint"; but he respects Miss Monose for her independence of the stream prison of the claiment of callinguistics in the same period, o claim it dues nake, but as o pulemical statement of the history of linguistics in the same period, o claim it dues nake, but as o pulemical statement of the importence of the history of linguistics in the same period, o claim it dues nake, but as o pulemical statement of the importence of the history of linguistics in the calliporation of cult. The trauble with this thesis is ther it uses o sledgelammaer to crack a nut. Chomsky himself puints our lin bis rext that Purtanyal's unallyses in the same of ellipsis, and if Chomsky admits, Carlesian Linguistics, which it does not cleim to be, nor as a can vincing account of the relation her tween philosophy end linguistics in the same period, o claim it dues nake, but as o pulemical statement of the importence of the history of linguistics in the calliporation of cult.

"twixi": but he respects Miss Monose for her independence of ophit, and har ochlavement in muking the journal useful oven when it was most respectable.

Haultoo does not think much not the Criterion; though he enjoys Eilet's "amusingly eccentric contesties" he does not find them wilkiest to disporse whnt Pound described as an "odour of the undertaker's establishmant peneural Eilet's establishmant peneural Eilet's valedictory estimated the "Europeoo phese" of the paper was a failure, its "English-political career" a disaster.

Erelitey Grissou's New Versa is.

was a fallure, its "English-political career" a disaster.

Licolfrey Grigsou's New Verso Is. one picket soy predictobly, more tu his land; ond this chepter, eathersed hy malicious quoteston, is the lest in the book. It is, bowever, not uncritical; there is soons comment on the foilure of New Verse to castigste Anden for his acceptance of the Klog's Medal with the servicity shown to Day Lowis for a falling off only slightly less excussible; ho was called "grease to the inhylpa of letters". You can oestly see that Mr. Hamilton, hittself a notable cultor of a little mogazine before he moved to connething big set and blander, feels a gonulus notable cultons were a ready and cary way to sort out the durices.

To write well about Partisat Re. then one would need to be closer to the nerve of New York lett-wing politics in the thirties than Hemlitoo can hope to be. He leaves us wondering whether he heaves.

world had cause for grothude for they gave eccess to a meas of Inforto thirties than Hemil of this century. Essain proceed determined error to extract the books have been used in the saint special to the ludgment we shall have to welt for blang Trilling's history of the Nsw York lotelligants in her time, on those points because Eoslin's new rationalist defonce ogalast despair, On Horizon Hamilton is, es nearly always, omusion mainteners, es nearly always, omusion, and he has some soon observations on the "plantenity valetudinarian" tones of Cyril Connolly; but, "not sufprishingly", he isn't niuch interested in the curious importance of the jour echlevement. What cen have led to

the curious importance of the jour-be curious importance of the jour-or in its misorable time; for dur-ins and immediately after the war-it appealed, perhaps fortutously, but certainly more strongly then a younger reader of its files could Anatomy of Drama is written in a leaguege perveded by terms of its filos could distributed people; for whom the sign of embodinal and intellectual recovered.

Anatomy of Drama is written in a leaguege perveded by terms of therefore be a consequence of this sociology, psychology, behavioural therefore be a consequence of this sociology, psychology, behavioural first false and confused position. Willest olso did not conceal his persually now lost, and possible of the book is certainly negligenty.

The book is certainly negligenty be, has lasted all the better.

Frank Kermode

Anatomy of Drama is written in a leaguege perveded by terms of therefore be a consequence of this first false and confused position. Willest olso did not conceal his persual dataste for Mersian, but he done is certainly negligenty.

The book is certainly negligenty be, has lasted all the better.

that It may have been hastily dictored. In short, it may be the effusion of a very busy man whose intelli-gonce has kept him interested in the intollectuel devolupments of his tune, but whose work has not per-Sixteen yoors agu Mortin Esslin and inlited him in study ony uf them John Willott published their bunks at source.

on Brecht. The English-reading The second possible explanation

The second possible explanation lirecht. Pert four is boldly entitled mation and tabled certain important "The Rool Brecht" but is in foct questions about an author, Hugh the leout useful, most insidious, and MacDiarmid . recoully ishluted as finally stuitifying part it is perhans with Meo, the most important writer a result of the Cold War and of this century. Esalla wrote with determined effort to extract Brecht oth. For laformed inery order to o complex and untitue Brecht was at heart a passionato on those points because Eoslin's new rationalist defonce ogalist despair, book is so banel, so shouldy in its and that his greatest plays drumnwriting, so null in thought that one tize this tragic conflict uneweres. looks back in wonder of the oarlier So we are given the surprising end the present decline? Two lines of potrmizing portreit of Brecht ao explanation present themselves, in un influential thesis and une that elther of which is sufficient in itself, entails complete critical stasis int

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There were so few specialist stu-thes of Mediterraneau kinship nord now that Africanists have been heard to uniter how it was time they came and showed their colleggues how it was done. This relugn-will go a long way to slicate the mattering and it is one of three cullections (one just published, one very shortly due ton the same gen-eral theme.

It contains 20 essays, set in Lebanon, the Maghreh, Afhania, Spain, Italy, Greece and Turkey, and among Palestinina Arabs. At the 1970 conference which pro-duced this volume nationals of duced this volume, nationals of these states were able to meet peace-fully around a table. Since then political conflicts in several of then have unde such civilized days seem even farther off than the delay in publication might have suggested. While this does not affect the technical volue of onist of the studies both the month of the studies both the month. of the studies, both the warld "and their marked the intellectual perspectives on it have changed enough to give the volume, and particularly its introduction, a faintly "period "flavour.

The theme of the hook with unding more precise than the tiple suggests. The formulation conduct disguise this and does little more than elegantly summarize the imagine. This, above all, contributes to the dated teeling. the dated teeling. The dated teeling to the dated teeling. The date of the dat

imagine. This, above all, contributes to the date of technical collection.

This assife, there are numbers of very point papers in the collection, and the general standards of argument and evidence are high, sometiment in the author of chances to other very sophistic atted; I. Davis horners become an property variety in the study of the study are assumed analysis of chances in property variety in the study. The resar is a number explaint and the collection of chances celebra solution and sharp no problems at method, and the contrast, Rosenferla gives a good and sharp no problems at method, and sharp no problems at more tong to the same to the sa

macro in micro-sociological analy-sis. It casts a good deal of light, indirectly, on ethnic identity in the

marking more precise than the title suggests. The lotroduction country disguise this and does little more than elegantly summarize the papers. There are some pretentions remarks, de hant en has, almost what is called anthropologic engage, by which is meant reference to class formathan or class straggle. Were the editor to teach a few sundern classes in any lirhish influences to class formathan or class straggle. Were the editor to teach a few sundern classes in any lirhish influences of interest which suggests, such matters hove mived for a few straight which suggests such matters hove mived very much further than he seems in the subject as shorter is not seem by large than the seems in the subject as for it masks elite manipulation and exploitation. Seeden rimoses to include the paper which is meant reference as the subject as for it masks elite manipulation and exploitation. Seeden rimoses to include the paper which is meant reference as the first include the paper on the volume of the volume of the volume of the subject as for it masks elite manipulation and exploitation. Seeden rimoses to include the paper of the volume of the volume of the volume of the subject as form it masks elite manipulation and exploitation. Seeden rimoses to include the paper of the volume o kinship commitment is not seen as

indirectly, on ethnic identity in the contemporary world.

The more recent and radical perspective (which draws down the culture's potentic) is found in Seit where kinship commitment is not seen as thins in the subject with the

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As Levin says, his commitment theory fails "about half way between the 'rank up' theory and the 'conspiracy' theory". But he leaves out the toke of the heric in milities. The Benaronem of the Enriconment has withdrawn is comBrian Smith's book 625

hy firlun Smills

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ISHN 0 85520 120 7 and 119 3

The study of British government is in a difficult state. Historical and legal descriptions of institutions no longer satisfy and we lack up-th-date systemotic texts, a gap which Brien many ottempts recently in relote organization theory to government, but name has completely succeeded theoretical together. Now Peter Lovin has taked time off from the Lovin has taked time off from the Highgata public inquiry to offer a serious and largely succeeded antinomnent in strategic and physical planning.

The hook dorivas from studios of the initial stages of the cortool Longanization, which are interested by both public and tectionical discussion. His fertile and democracy of the initial stages of the cortool Longanization of the public and tectionical discussion. His fertile and the responsibility for more open procedures in which the organization. His fertile and democracy of the initial stages of the cortool Longanization. His fertile and tectionical discussion. His fertile and the tone of the initial stages of the cortool Longanization of the public and tectionical discussion. His fertile and the tone of the cortool Longanization of the public and tectionical discussion. A comparison hetween new town ond town uxpansion procedures, to-gunder with a great deal of other evidence, help shape the criteria to apply to pluming procedures. Different procedures give different weights to rothmality, efficiency, distributivo justice and democracy and Levio cogenity orgues the case for more open procedures in which the orguneuts can be relteratively tested by both public and technical discussion. His proposals attack premature, exclusive and over-committed slyles of planning. The role Tho hook dorivas from studios of the initial stages of the centrol Lnn. cashire oew town and Swindon expansion development schomes. Much of the technical detail will be useful to planning students. It is well controlled and arguad, and it draws out implications for the relationship hatween demogracy and rationality in gnyarimment. There is good discussion of how commitment is generated in government through the procass of aspousal. Once officials espouse a scheme, procadures which seom nautral become deterministic. Both the outline of this theory and the avidence behind it are sensitively written even if some of the conclusions. By that time they ore thing more than 15 years already whether it be population move.

review) and the test.
lieth books point to the schizophrenie in governments the both rational sell patire if it is to meet know though no civil sent avoid the responsibility for the part preferences for 18. he is called upon to mind the is called upon to mind the surling interests, needs and democratic society. The not that government leviathan but that decisions ore the pro-indicable procedured determinism and shorter determinism and shorters.

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Among this week's reviewers

P. W. Alkins, author of Moleculer Cincolo College, Oxford;

E. J. Burge, author of Atomic sor and head of the department of Mourice Kogan is professor and head of the department of Rovership in the department of Rover

UNIVERSITY, OF DUBLIN Trinity College LECTURER IN

THE TIMES INGHER EDUCATION SPECIFICATION 42.77

1. DEPARTMENT OF FOREST RESOURCES

Condicates her (a) much possess a tiral degree in lorestry, plus considerable proven fleid appairance of the methods and problems of freelies between fleid appairance of the methods and problems of freelies from the management will be an advantage. Candidates for (b) should possess a PhO in Forestry, Agricalium, or related plant actenties from a recognized University. Preference will be given to those with active respect freely. Preference will be given soil microbiology. Candidates for (c) should possess a good last degree in either Wood Chemistry or Wood Science Subjects. A posignature research asputience in pirty and paper scients would be an advantage.

(Rural Social Change)

Candidates for (s) should possess in PhD to Astronomial Journalism. Mess Communication of Agricultural attention with course work in journalism. Applicants must be able and projeted to teach undergraduate and postinulate courses in extension lesching methods and communication, expervise postgraduatin (seesich autdents and supervise the agricultural information and Hamistellou unit Research and lesching experience at University level is essential Candidates for (b) should have the Octhelor a degree in Sociology with delevant courses in Rural Sociology Research and field experience in rural social experience in rural social experience by willing and graphated to teach courses in rural social experience by willing and graphated to teach courses in rural social experience. Settling and proposed to teach courses in rural social experience, community expendention and research methods.

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2. DEPARTMENT OF AGRICULTURAL

(Agricultural Communication)

EXTENSION SERVICES

(a) Senior Lecturer

(b) Lecturer Grade II

(Rural Social Change)

MANAGEMENT

(c) Wood Chemistry

(a) Foresi Menagement

Lecturers in:

(b) Silviculture

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Appointment will be made to the range 23,321-23,696. Marriage and Childran's allow-ances are paid and thara is a non-contributory F.S.S.U. typa panalon achama. Application forms and lurihar particulars may be obtained

> The Stall Secretary, Wast Theatre, Trinity College, Dubiln 2,

who will receive applications urtill Friday, 4th March, 1977.

UNIVERSITY OF SALFORD Department of Civil Engineering Quantity Surveying

Construction Economics REF. C/105/THER Applicants should possess a good Honoura Oogree in an appropriate discipline, a posignatusis qualification, and seems professional appropriate of sonaturoller linence, soci planning and control, contract law or quentity serveying. Mombership of the RIGS is required. A limited amount of consultancy is parmis-

Lecturer in Building Surveying

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This lectureship is the first appetniment to the first university degree course in Bellding Surveying. Applicants shalld alther postess a good Honeus Ossrae in an apprepriate discipline, or a postgradusis qualification, and some professional experience in at less one of the appeals of building surveying. Membarship of the RICS is required. Salary scale: \$3,338-28.855 is, further patitiouses and appropriate forms may be obtained in the Registrat. University of Selford, Salary March 1977 design appropriate by the selford appropriate of the selfor

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Lecturer in Muskering Responsibilities include both

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to the Master of Administration and Bachelor of Conoglies mogranums, but it it planted to

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University of Adalaida

POSTDOCTORAL

PATHOLOGY

4 March 1977.

LECTURER IN

ANTHROPOLOGY

The Lealurer, who should a have general expession is Authorntogy/Sociology with major heldwork experience in

modern arban communities, will be expected to engage in urban

seconds the Asstracts and to participate to the Department's techning programmes golshly the intentional collection.

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FELLOW IN PLANT

in the Department of Plast Pathology to co-operate with Dr. A. Kerr in a study of the genetics and/or the anotecular budgey of Agrobacterium.

15 March 1977.

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PROFESSOR OF PHYSICS

The lineersity is biggrading the concling of Physics to a full major in the indergraduals programme and sucks a Professor to take charge of deciping within the School of Natural Hespaces. The University visites o see lancing, tessaction of conditionary in physics strongly offset formatis independent of recommendation of physics, especially to the natural response to the opportunities of fechnology to the countries of fechnology to the bability in appropriate stose and with a withingness to commit bancell to the work needed in the South Pacific and to the production of computent graduates for confederation of computent graduates.

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Dublin 2,
who will receive applications
until briday, 4th March, 1977.

GENETICS

SENIOR LECTURER Iha above poat which is in the Daparlmeni of Ganaties. Applicatione will be con-IN ACCOUNTING |School of Secial Sciences| The appointment will be the Applications will be adversely aldered from those working in applied of lundamanial or applied ganellos, but prelarance will be given to a alrond applicant who is able to contribute to reaserch and teaching in the liaids of Quantitative Ganetica end/ot Animal Breeding. University and the approxima will be heated in the disciplina of the committee

South Australia

7 Murch 1977.

Filindere Univarelly of

The appointes will be expected to develop and organise jue University's proposed postground Diploma in According course which will accept its first students in March 1978. 1 March 1977.

ABERYSTWYTH THE UNIVERSITY COLUEGE CHAIR IN' AGRICUCTURAL

Turrhor restriction evaluate from the september, to whom equivations its emican points of the september of t

University of Sydney POWER CHAIR OF CONTEMPORARY

Applications are instead from Albelans or the field of Poor Arre with an interest in contemporary art. This Chair which will String the Poyer Department of Lore Arts, a component of the Posser In Rude of Fine Arts of which Professor B. W. Smith has been 1th ator 39 April 1971,

LECTURER IN **EDUCATION** [Pre-Pitalety Education]

Applicants should have readenic and protessional qualifications in party challhood education and pre-school teaching s personne de tre mitable crowd would be an advocage.

Appointed would work mainly in pre-primary education strand of Highelor of Libration Degree and would be expected to take up dones in Jone 1977.

4 March 1977.

SENIOR RESEARCH FELLOW/RESEARCH FELLOW/ POSTDOCTORAL FELLOW DEPARTMENT OF Jamas Cook University THEORETICAL

of North Queensland PHYSICS. The Total Projector of Theoretical Physics (Read): Projector K. J. Le Utometr, F. A. A.) conducts studies of qualitar structure and renctions of qualitar structure and renctions of qualitary structure and renctions, solid state physics, and plasma physics, and plasma physics, several appointments may be made and preference will be given to application interested in male are renctions with the avoid on application of appointment of search research tellow or research tellow will be considered for a person out leavalloun monther unaffiguitation.

7 March 1977. **LECTURER IN** BEHAVIOURAL SCIENCES (SOCIAL WORK) Applicants Award pulsess a

Bachelor's degree in social work and a bighter degree in social and a higher degree in social work or a selevinal nodal science isuch as underopology, concentes, psychology or salelogy). Both ucademic and practical experience in various. Helds of social work ou 30 Jone 1977.

LECTURER IN ENGINEERING (MECHANICAL)

Applicants should have a kast as homeons regree and preferably a lighter degree mechanical coglucuring, together with teaching and research and/or psofession experience in Hermodynamics a rolated field, Preference will be given to candidates with a pecial interest in soles energy 4 Murch 1977.

PATHOLOGY 1Rel.7.33 The Department of Pathulogy is in-seted parity in the University

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11 Maich 1977.

Divisies of Tissue Pathology of the adjacest finding of Medical and Veterinary Science.
The Division has excellent
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THE OPEN UNIVERSITY FACULTY OF EDUCATIONAL STUDIES **APPORITMENTS**

Applications ere invited for the following posts in the Ebova faculty:

1. **LECTURER** to work in the Curriculum Studies discipline. Rel. 2080 ·

Cendidetes should ideally heve broad prectical experience, e beckground in Educational Studiae and prefarably a Higher Degree. Praterenca will be given to cendidates whose work end interests are in the erse of Cultural Studies. However, this should not dater epplicants troin different but relevent disciplinary backgrounds to the study of the curriculum from applying. The successful candidets will be working to en inter-disciplinery course lean; and will be expected to lake a full part in the davelopment of new courses and the maintenence of on-poing courses within the Curriculum Studies area. It is hoped the successful cendidete will commence on 1st July, 1977.

2. LECTURER to work in the Psychology of Education discipline. Rel. 47

Although no speciel interest is assentlet, cendidates should possess appropriate beckground and interests in one or more of the following areas: child davelopment, psycholinguistics; personality theory; classroom processes. The successful candidate will be involved in the language and learning area; which may be the interest of the properties of the personal partial area. the language end leerning area) which may involve writing course lext and assessment maleriels and meking talevision and redio progremines. The parson appointed talevision and redio progremines. The person appointe should commence on 1st June, 1977.
Selary for the ebove 2 lenurad poots will be within the renge £3,333 to £6,855 p.a., eccording to egs, quellications end expertence, plus U.S.S. banelits.

3. RESEARCH ASSISTANT to work in the Psychology of Education discipline.

- Table 1

Re), 72 The successful cendidele will, in the litrat instance, essist with one of the following current research activities:

(a) e study of (secheral parceptions of children's behaviour, (b) e review of the illarature on relationships beheviour. (b) a review of the marature on relationships batween eason of birth and child development. The poet is initially teneble for 3 years and satary will be within the 1B Research scale £2,904-£4,190, according to ege, qualifications and experience, plus U.S.S. benefits, Opportunifies to work for a higher degree can be

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Ganior Lecturer/Lecturer in the fields of (a) Comparative Politics;

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Applicants must have a higher degree preforably a Pho. Experience,
of University teaching will be an adventage. For (a) knowledge of Francophose Abjoen States and en ability to loach Political Theory

will be an adventage. For (b) specialisation in policy analysis and
the evaluation of public policy will be required.

2. 99PARTMENT OF TEACHER EDUCATION : Senfor Lecturer/Lecturer in the following mass (s) Curriculum Recesses

(a) Boldinge Education (Chemistry)
(d) Boldinge Education (Chemistry)
(d) Bolding Methodology
(d) Bolding Methodology
(a) Elementary (Pre-Primary/Primary) Education
(f) Economics Methodology

mailes Education . All applicants must possess a higher dogree in the appropriate subject. Applicants must be able to leach undergraduate and higher dogree courses and should by able to inhibit and supervise research work.

work.

For (c) condidates should also have theoretical knowledge and research eaperlance in Applied Linguistics in English Linguistics and English Curriculum Oevelopment or English Linguistics Teating.

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Salary Scalo; (a) N1, 268 (c) N12, 260 (pd 129, 763 (b) 210, 809 (b) N8, 856 (c) N8, 828 (c) R7, F1 (c) R8, 856 (c) N8, 984 (c) R8, 984 (c

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(IV) CURRICULUM DEVELOPMENT SCIENCE ESUCATION

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Approximates of Irish Universities for a Research Vellowship in the Helit of Women's Studies, with specific reference to Irish Women.

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Twe Research Fellowships are allered to 1977-79; one of Circia's College and the other at Clare Hell. Both Fellowships as isable by a man or a woman. Casdidates should be speed under thirty-live do 1 October 1977. They was required to rhow evidence of capacity for research is not history but seed not possess, nor beworking rowards, a higher depres. Fellows may be erced to do a limited amount of tearning withing their feldes during Full Terms. The stippends will be not left when \$2,695 or \$2,795 with residence to Christ's College!, with up to £508 allow-more for trawn or for the proposed legical long streams or a customate and of the proposed legic of revearch, together with two copiar of any willings, published or uspublished, which provide suffector of the applicant or capacity to underlike independent research. Applications should reach the Secretarnia and or capacity to underlike independent research. Applications should reach the Secretarnia Applications should reach the Secretarnia.

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There is no official application term.

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